

V-TAC

Meaningful Innovation.

CATALOGUE

SOLAR ENERGY | **2024**



COMPLETE ENERGY SOLUTIONS FOR A BETTER TOMORROW

V-TAC was founded with the vision of providing energy-efficient LED lighting solutions worldwide.

While building a vast portfolio in LED lighting over the past years, we were also able to build expertise in innovation and expand our R&D team to offer a diversified catalogue with over 4500 products to our clients and partners all over the UK and Europe.

Utilizing our brand value and manufacturing technologies, we have been expanding our product categories beyond lighting, with one mission to improve the lives of humanity worldwide.

Now, we are moving towards promoting sustainable practices that will help citizens and businesses lower their carbon footprint, and become a global leader in providing energy efficient systems — including solar panels, inverters, battery packs, and power stations.



ESTABLISHED
2009



PRESENCE IN
75 COUNTRIES



TURNOVER
\$150M

Build your Full System with ONE BRAND!

RESIDENTIAL



COMMERCIAL

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SMART ENERGY STORAGE SYSTEM



Whether you're powering a cozy cottage or a sprawling complex, our HiEnergy series adapts to your unique energy demands. Choose from a versatile range of configurations designed for both single-phase and three-phase systems.



EASY INSTALLATION

- Battery interface Plug & Play
- Wireless installation



FLEXIBLE APPLICATION

- Provides 100% unbalance loads in backup mode
- Flexible battery expansion



SMART MANAGEMENT

- Higher efficiency of solar energy self-consumption with built-in EMS
- Remote firmware update & customisable settings



HASSLE-FREE SERVICE

- Full-scale professional support
- 10 years warranty



NEW All-in-one ESS

CEI 0-21

CERTIFICATE



Inverter + Battery
3.6kW | 5kWh

Single Phase
SKU: 119881

10 YEAR
WARRANTY



Inverter + Battery
5kW | 10kWh

Single Phase
SKU: 119891

10 YEAR
WARRANTY



Inverter + Battery
6kW | 10kWh

Single Phase
SKU: 119821

10 YEAR
WARRANTY



Inverter + Battery
10kW | 10kWh

Three Phase
SKU: 119901

10 YEAR
WARRANTY

NEW

HiEnergy- Single phase Inverters



Model No:
SKU Code:
Weight:
Dimension(W*H*D):

3.6kW

HEC2-S3.6Hr2
11988
34kg
800*435*160mm

5kW

HEC2-S5.0Hr2
11989
34kg
800*435*160mm

6kW

HEC2-S6.0Hr2
11982
34kg
800*435*160mm

AC GRID SIDE(ON-GRID)

Nominal AC output power[W]	3680*1	5000*1	6000*1
Max.Output Power(W)	3680*1	5000*1	6000*1
Nominal Apparent Power Output to Utility Grid (VA)	3680*1	5000*1	6000*1
Max. Apparent Power Output to Utility Grid (VA)	3680*1	5000*1	6000*1
Nominal Apparent Power from Utility Grid (VA)	3680*1	6000*1	6000*1
Max. Apparent Power from Utility Grid (VA)	6000*1	6000*1	6000*1
Nominal grid voltage[V]	230	230	230
Grid Voltage Range[V]	180-280	180-280	180-280
Nominal grid frequency[Hz]	50	50	50
AC Grid Frequency Range (Hz)	50±5	50±5	50±5
Max.output AC current to Utility Grid[A]	16	21.7	26.1
Rate output AC current to Utility Grid[A]	16	21.7	26.1
Rated AC Current From Utility Grid (A)	16	21.7	26.1
Max. AC Current From Utility Grid (A)	26.1	26.1	26.1
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
I.THD[%]	<3@Rated power		

PV INPUT

Max.PV array power[W] (MPPT 1 / MPPT 2)	3750 / 3750	3750 / 3750	3750 / 3750
Max.DC voltage[V]	600	600	600
Nominal DC operating voltage[V]	360	360	360
MPPT voltage range[V]	100-540	100-540	100-540
MPPT voltage range for nominal power [V]	137-480	185-480	225-480
Start up voltage[V]	120	120	120
Max.input current(A/B)[A]	15/15	15/15	15/15
Max.short circuit current(A/B)[A]	18/18	18/18	18/18
No.of MPPT / String per MPPT	2/1	2/1	2/1

BATTERY PARAMETER

Battery voltage range[V]	85 -400	85 -400	85 -400
Battery voltage range for nominal power[V]	160-400	225-400	250-400
Recommended battery voltage[V]	300	300	300
Max.charge/discharge current[A]*2	25/25	25/25	25/25
Communication interfaces	RS 485/ CAN	RS 485/ CAN	RS 485/ CAN
Reverse connect protection	Yes	Yes	Yes

PROTECTION & CERTIFICATIONS

Safety	IEC/EN 62109-1&2, IEC62477
EMC	IEC61000-6-1, IEC61000-6-3
Environment	IEC60529,IEC60068
Ecency	IEC61683
Certification	EN50549-1,G99,G98,CEI021,VDE4105,AS4777.2

NEW

HiEnergy- Three phase Inverter



10kW

Model No:	HEC2-T10Hr2
SKU Code:	11990
Weight:	53kg
Dimension(W*H*D):	800*1320*160mm

AC GRID SIDE(ON-GRID)

Rated AC Outout Power
Max. Apparent Power
Nominal Grid Voltage
Nominal Grid Frequency
Max. AC Output Current
Power Factor
I.THD
Rated AC Input Power
Max. AC Output Current

10kW
11kVA
415VAC/240VAC~; 400VAC/230VAC~;380VAC/220VAC~;3L/N/PE
50/60Hz
16.5A
1(-0.8~+0.8)
<3%
20kW
32A

AC SIDE OFF-GRID

Rated AC Output Power
Rated Output Voltage
Power Factor
Rated Output Current
U.THD
Switching From Grid Connected Mode To Standalone Mode

10kW
400VAC/230VAC~
50/60Hz
15A
<3%
<20ms

PV INPUT

Max. DC Input Power
Max. DC Input Voltage
Rated DC Input Voltage
Start-up Voltage
PV Input Current (A/B)
Max. PV Isc
MPPT Range
No.of MPP Trackers
No.of Strings per MPP Tracker

(5.25kW+5.25KW)/6kW
1000VDC
630VDC
200VDC
26A/16A
30A/20A
180V-950VDC
2
2/1

BATTERY PARAMETER

Battery Type
Battery Voltage Range
Max. Charging/Discharging Current
Recommended Battery Energy
Flexible Expansion
Cycle Life

Lithium-ion
180VDC-650VDC
30A
10.2kWh
Max.20.4kWh in one string, Max.40.8kWh in parallel
6000 times(0.5C, 25°C, 90%DOD, 70%EOL)

PROTECTION

Integrated Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection

Over Voltage Category DC Type II/AC Type III

NEW High Voltage Battery Packs


SINGLE PHASE

5kW

SKU Code:

11983

THREE PHASE

5kW
11999
AC GRID SIDE(ON-GRID)

Component	Base+BMS+ 1*Module
Nominal Voltage	102.4V
Maximum protection voltage[V]	116.8V
Maximum protection voltage[V]	89.6V
Number of Battery Modules	1
Rated Capacity	50Ah
Total Energy	5.1kWh
Usable Energy	4.6kWh
Nominal Power	2.56kW
Maximum Charge/Discharge Current	30A
Cycle Life	6000 Cycles (@25°C, 0.5C/0.5C, 70%EOL)
Expected Life Time	10Years
Operating temperature	Discharge temperature range -20°C to 55°C Charge temperature range 0°C to 55°C
Storage Temperature	-20°C to 45°C (3 months) -20°C to 35°C(1 year)
Humidity	15~95%
Altitude	Below 2000m
Ingress Protection	P65
Communication	RS485/CAN2.0
Status Indicator	LED Lights
SOC Indicator	5LED (20%, 40%, 60%,80%,100%)
Switch on/off	Button*1 +Breaker*1
Certificate	CE ,IEC62619,IEC62040,IEC60529,IEC61000,UN38.3
Weight	69±4kg
Dimension(W*H*D)	800±20*840±30* 160±20mm

BMS Control Box

SKU: 11984 Single phase
SKU: 12000 Three phase


Base Pan For ESS Unit

SKU: 11985



WiFi Module - Extra Extension

SKU: 11987


Parallel Cable
For Battery Pack
Capacity Expansion

SKU: 11991 - 1.3m
SKU: 12153 - 2m


NEW System Expansion - Single Phase



3.6kW | 5kWh

Inverter x 1

Control box x 1

Battery Pack x 1

Base x 1



3.6, 5, 6kW | 10kWh

Inverter x 1

Control box x 1

Battery Pack x 2

Base x 1



5, 6kW | 15kWh

Inverter x 1

Control box x 1

Battery Pack x 3

Base x 1



5, 6kW | 20kWh

Inverter x 1

Control box x 2

Battery Pack x 4

Base x 2

2M Cable x 1



5, 6kW | 30kWh

Inverter x 1

Control box x 2

Battery Pack x 6

Base x 2

2M Cable x 1

System Expansion - Three Phase



10kW | 10kWh

Inverter x 1

Control box x 1

Battery Pack x 2

Base x 1



10kW | 15kWh

Inverter x 1

Control box x 1

Battery Pack x 3

Base x 1



10kW | 20kWh

Inverter x 1

Control box x 1

Battery Pack x 4

Base x 1



10kW | 20kWh

Inverter x 1

Control box x 2

Battery Pack x 4

Base x 2

2M Cable x 1



10kW | 30kWh

Inverter x 1

Control box x 2

Battery Pack x 6

Base x 2

2M Cable x 1



10kW | 40kWh

Inverter x 1

Control box x 2

Battery Pack x 8

Base x 2

2M Cable x 1

NEW All-in-one Energy Storage System

12kW/15kWh
10
 YEAR
 WARRANTY

CEI 0-21
 CERTIFICATE

SYSTEM SPECIFICATION

Nominal Output Power/UPS Power (W)	12000 / 12000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Recommended Energy Configuration	15kWh(Min.)
Max. Charging/Discharging Current (A)	240
Battery Operating Voltage (V)	43.2 ~ 57.6
Battery Chemistry	LiFePO4
IP Rating of Enclosure	IP65 (After stacking) IP20 (Without stacking)
System Certification	IEC62619, IEC60730, CE, VDE2510-50, CEI 0-21
Warranty [1]	Battery 10 years (Inverter 10 years)


INVERTER TECHNICAL SPECIFICATION

Max. PV Input Power (W)	15600
Rated PV Input Voltage (Vdc)	550 (160~800)
Start Up DC Voltage (Vdc)	160
MPPT Voltage Range (Vdc)	200~650
Full Load DC Voltage Range (V)	350~650
Max. PV Input Current (A)	26+13
Max. PV Short-circuit Current (A)	34+17
No. of MPP Trackers	2
Peak Power (off grid)	2 time of rated power, 10s
Power Factor	0.8 leading to 0.8 lagging
DC injection current (mA)	THD<3% (Linear load<1.5%)
Display	LCD
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	720x255x440
Weight (kg)	38
Communication with BMS	CAN2.0
Max. Efficiency	97.60%
Max. charging/discharging efficiency	95.50%

5.12kWh Solar Battery

 SKU Code: **12186**
12kW Hybrid Solar Inverter-Three Phase

 SKU Code: **12190**
Power Distribute Unit III+ Base

 SKU Code: **12187**
BMS

 SKU Code: **12188**
BATTERY TECHNICAL SPECIFICATION

Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	5.12
Module Scalability	Max.36 pcs in parallel(Max. capacity of 184kWh)
Battery Module Dimension	720*255*300(W x D x H, mm)
Battery Base Dimension	720*255*68(W x D x H, mm)
Battery PDU3 Dimension	720*255*228(W x D x H, mm)
Battery Module Weight (kg)	53
Operating Temperature Range	Charge: 0~55°C / Discharge: -20°C~+55°C
Cycle Life	≥6000(25°C±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)

EMC/Safety Regulation

IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4

Grid Regulation

VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0-21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150

Battery Module

IEC62619, CE, UK, VDE2510-50, CEI 0-21, UN38.3, CE-LVD, CEC

NEW EV Charger-Single Phase

7kW

SKU Code: **11868**



Rated Power	7kW
Input/Output Voltage	Single-Phase 230V
Input/Output Current	32A
Frequency	50/60Hz
Connector	Type1, Type 2
Cable Length	5m
Authorization	Plug and Charge/NFC/RFID/APP(optional)
Metering	MID Meter
Protection rating	IP65/IK10
Operation altitude	<2000m
RCD	Type A 300mA +DC 6mA
EMC	Class B
Certification	CE/TR25/TUV Mark/RCM/KC/UKCA



TR25



OVER-TEMPERATURE PROTECTION

Intelligent temperature control to prevent high temperature from burning the AC charger.



OVERCURRENT PROTECTION

Protect cables and other components by automatic cut-out from risks of overload and short circuits which cause fire.



SHORT CIRCUIT PROTECTION

The power will be automatically cut off when the vehicle is short circuited to ensure its safety.



BACKFLOW PREVENTION

Automatic power-off protection when the car voltage is higher than the charging pile.



EMERGENCY STOP

In an emergency, you can cut off the power by pressing the emergency stop button simply.



LIGHTING PROTECTION

Deriving current to avoid equipment damage when lighting hits.



OVER/UNDER VOLTAGE PROTECTION

Protects the charging pile when the voltage given by the grid is unstable.



EARTH FAULT PROTECTION

Giving the tripping command to avoid electrical system get short-circuited and ensure safety of users when in the event of an EVSE grounded fault.

SOLAR INVERTERS

V-TAC
Meaningful Innovation.



Solar Inverters are devices that convert the direct current (DC) generated by solar panels into alternating current (AC) which is used by domestic and commercial appliances. It is one of the most critical components of the solar power system as it converts power from the sun into useful energy and is often referred to as the brain of a solar system. Solar inverters are a crucial part of a solar system since power from the sun cannot be directly used to run electrical appliances. V-TAC's range of solar inverters have evolved to become much more smart and intelligent units, performing other functions such as data monitoring, advanced utility controls, energy management, and more.

Deye

Afore


Sinexcel




NEW
05
 YEAR
 WARRANTY

Single Phase On-Grid String Inverters

2kW
3kW
3.6kW

Model No:	SUN- 2K-G04P1-EU-AM1	SUN- 3K-G04P1-EU-AM1	SUN- 3.6K-G04P1-EU-AM1
SKU Code:	11956	11957	11958
Net Weight:	4.8kg	4.8kg	4.8kg
Size(MM):	280×310×184	280×310×184	280×310×184
Max. Efficiency	97.3%	97.5%	97.5%

PV INPUT DATA

Max. PV Input Power (kW)	2.6	3.9	4.7
Max. PV Input Voltage (V)	550	550	550
Start-up Voltage (V)	80	80	80
MPPT Voltage Range (V)	70-500	70-500	70-500
Rated PV Input Voltage (V)	360	360	360
Max. Operating PV Input Current (A)	20	20	20
Max. Input Short Circuit Current (A)	30	30	30
No. of MPP Trackers	1	1	1
No. of Strings per MPP Tracker	1	1	1

AC OUTPUT DATA

Rated AC Output Active Power (kW)	2	3	3.6
Max. AC Output Apparent Power (kVA)	2.2	3.3	3.96
Rated AC Output Current (A)	9.1/8.7	13.7/13.1	16.4/15.7
Max. AC Output Current (A)	10/9.6	15/14.4	18/17.3
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un	220/230 0.85Un-1.1Un	220/230 0.85Un-1.1Un
Grid Connection Form	L/N/PE	L/N/PE	L/N/PE
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	50/45-55, 60/55-65	50/45-55, 60/55-65
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Total Current Harmonic Distortion THDi	<3%	<3%	<3%
DC Injection Current	<0.5%In	<0.5%In	<0.5%In

GENERAL DATA

Operating Temperature Range (°C)	-25 to +65, >45 Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	2000m
Noise (dB)	≤35
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Warranty	5 Years
Type of Cooling	Natural Cooling

PROTECTION & CERTIFICATIONS

Safety / EMC	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Protection	DC Polarity Reverse Connection, AC Output Overcurrent, AC Output Overvoltage, Efficiency AC Output Short Circuit Thermal, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, Overvoltage Load Drop, Residual Current (RCD) Detection, Surge Protection Level: TYPE II(DC), TYPE II(AC)
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE-AR-N 4105



CEI 0-21

CERTIFICATE

10 YEAR
 WARRANTY

SKU Code:

Net Weight:

Size(MM):

Max. Efficiency:

NEW

Single Phase On-Grid Inverters

5kW

6kW

PV INPUT DATA

Max. DC Power (W)	7000	8400
Max. DC Voltage (V)	600	600
MPPT Voltage Range (V)	70-550	70-550
MPPT Full Power Voltage Range (V)	180-550	220-550
Rated Input Voltage (V)	360	360
Start-up Voltage (V)	70	70
Max. Input Current (A)	14 x 2	14 x 2
Max. Short Current (A)	18 x 2	18 x 2
No. of MPP Tracker / No of PV String	2/2	2/2
Input Connector Type	MC4	MC4

AC OUTPUT DATA

Max. Output Power (VA)	5500	6600
Nominal Output Power (W)	5000	6000
Max. Output Current (A)	24	28.7
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac	
Grid Voltage Range	180Vac-276Vac (According to local standard)	
Nominal Output Frequency (HZ)	50/60	
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)	
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)	
Output Current THD	<3%	

GENERAL DATA

Protection Degree	IP65
Enclosure Material	Aluminum
Ambient Temperature Range (°C)	-25 to 60
Humidity Range	0-100%
Topology	Transformerless
Communication Interface	RS485/WIFI/Wire Ethernet/GPRS(optional)
Cooling Concept	Convection
Noise Emission(db)	<28
Night Power Consumption(W)	<1
Max.Operation Altitude(m)	4000

PROTECTION & CERTIFICATIONS

Safety / EMC	IEC60068,UL1741,EN62109 - EN/IEC 61000-6-2,EN/IEC 61000-3-2,EN61000-3-3,EN61000-3-11,EN61000-3-12
Protection	PV Reverse Polarity,PV Insulation Resistance Detection, AC Short Circuit, AC Over Current, AC Over Voltage,Anti-Islanding,Residual Current Detection, Over Temperature, Integrated DC switch, Surge Protection, Smart IV Curve Scanning, Quick Arc Fault Circuit interruption:optional
Grid Regulation	IEEE1547,CSA C22,EN50549,VDE4105,VDE0126,RD1699,ABNT NBR16149&16150,AS4777.2,NB/T32004,IEC61727

Single Phase On-Grid Solar Inverter

3kW

 Model No: **VT-6603105**
 SKU Code: **11369**

5kW

 Model No: **VT-6605105**
 SKU Code: **11370**
05 YEAR
 WARRANTY

3kW

 Model No: **VT-6603110**
 SKU Code: **11379**

5kW

 Model No: **VT-6605110**
 SKU Code: **11380**
10 YEAR
 WARRANTY


INPUT (DC)

Max. Input Power
Max. Input Voltage
Start Voltage / Min. Operating Voltage
MPPT Voltage Range
MPPT Rated Voltage
Number of MPP Trackers / String per MPPT
Max. Current per MPPT

3kW

3.6kW
600V
120V / 100V
120V-550V
360V
2/1
9A

5kW

6kW
600V
120V / 100V
120V-550V
360V
2/1
15A

OUTPUT (AC)

Max. Output Current
Rated AC Power
Rated Grid Frequency
Rated Grid Voltage
Power Factor
THDi

16A
3kW
50Hz / 60Hz
230V, L+N+PE
.0.99 (Rated Power)
<3% (Rated Power)

24A
5kW
50Hz / 60Hz
230V, L+N+PE
.0.99 (Rated Power)
<3% (Rated Power)

EFFICIENCY

Max. Efficiency
European Efficiency
MPPT Efficiency

97.7%
96.7%
99.9%

97.8%
96.8%
99.9%

GENERAL DATA

Dimensions (W x H x D)	360 x 462 x 150 mm
Weight	18kg
Operating Temperature Range	-25°~+60° (Derating above 45°)
Cooling Method	Natural Cooling
Protection Degree	IP65
Noise	<30dB
Highest Altitude	3000m (Derating above 2000m)
Relative Humidity	0~95%
Topology	Transformerless
Night Power Consumption	<1W
Warranty	5years (Standard) / 10years (Optional)

PROTECTION & CERTIFICATIONS

Protection	DC switch, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-islanding protection, Over-temperature protection, Ground fault monitoring, etc.
Display	LED (Optional) / LCD (Standard)
System Language	English / Chinese / German / Dutch
Communication	Standard: RS485
Grid Connection	IEC 61727:2004, IEC62116:2014, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683:1999, DIN VDE 0126-1-1:2013, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, G98:2019, C10/11:2019, AS/NZS 4777.2:2020, NB/T 32004-2018, PEA, ZVR
Safety / EMC	IEC/EN 62109-1:2010, IEC/EN 62109-2:2011, EN 61000-6-2:2019, EN 61000-6-3:2007/A1:2011

Single Phase On-Grid Solar Inverter

3.6kW

 Model No: **VT-6607036**
 SKU Code: **11726**

5kW

 Model No: **VT-6607035**
 SKU Code: **11820**
05 YEAR
 WARRANTY


PV INPUT DATA

	3kW	5kW
Max. DC Power (W)	5400	7000
Max. DC Voltage (V)	600	600
MPPT Voltage Range (V)	70-550	70-550
MPPT Full Power Voltage Range (V)	130-550	180-550
Rated Input Voltage (V)	360	360
Start-up Voltage (V)	70	70
Max. Input Current (A)	14 x 2	14 x 2
Max. Short Current (A)	18 x 2	18 x 2
No. of MPP Tracker	2	2
No. of PV String	2	2
Input Connector Type	MC4	MC4

AC OUTPUT DATA

Max. Output Power (W)	3960	5500
Nominal Output Power (W)	3600	5000
Max. Output Current (A)	17.5	24
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac	
Grid Voltage Range	180Vac-276Vac (According to local standard)	
Nominal Output Frequency (Hz)	50/60	
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)	
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)	
Output Current THD	<3%	

EFFICIENCY

Max. Efficiency	98.20%	98.20%
European Efficiency	97.82%	97.90%

GENERAL DATA

Dimensions (W x H x D, mm)	358 x 360 x 142
Weight (kg)	10
Protection Degree	IP65
Enclosure Material	Aluminum
Ambient Temperature Range	- 25 - 60
Humidity Range	0-100%
Topology	Transformerless
Cooling Concept	Convection
Noise Emission (db)	<28
Night Power Consumption (W)	<1
Max. Operation Altitude (m)	4000
Communication Interface	RS485 / WiFi / Wire Ethernet

PROTECTION & CERTIFICATIONS

Protection	PV Reverse Polarity Protection, PV Insulation Resistance Detection, AC Short Circuit Protection, AC Over Current Protection, AC Over Voltage Protection, Anti-Islanding Protection, Residual Current Detection, Over Temperature Protection, Integrated DC switch, Surge Protection(Integrated (Type III), Smart IV Curve Scanning, Quick Arc Fault Circuit Interruption(Optional)
Safety Standard	IEC 60068, UL1741, EN62109
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12



Three Phase On-Grid Solar Inverter

5kW

8kW

10kW

Model No:	VT-6605305
SKU Code:	11371
Net Weight:	20kg
Size(MM):	360 x 530 x 150

Model No:	VT-6608305
SKU Code:	11372
Net Weight:	23kg
Size(MM):	360 x 575 x 150

Model No:	VT-6610305
SKU Code:	11373
Net Weight:	23kg
Size(MM):	360 x 575 x 150

INPUT (DC)

Max. Input Power	5.7kW	9kW	11kW
Max. Input Voltage	900V	1000V	1000V
Start Voltage / Min. Operating Voltage	220V / 150V	220V / 180V	220V / 180V
MPPT Voltage Range	180V ~ 800V	180V ~ 800V	180V ~ 800V
MPPT Rated Voltage	580V	610V	610V
Number of MPP Trackers / String per MPPT	2 / 1	2 / 1	2 / 1
Max. Current per MPPT	12A	12.5A	12.5A

AC OUTPUT DATA

Max. Output Current	8A	12.5A	16A
Rated AC Power	5kW	8kW	10kW
Max. Output Power	5.5kVA	8.8KVA	11KVA
Rated Grid Frequency	50Hz / 60Hz		
Rated Grid Voltage	230V / 400V, 3L+N+PE / 3L+PE		
Power Factor	-0.8~+0.8(adjustable)		
THDi	<3% (at rated power)		

GENERAL DATA

Operating Temperature Range	-25°C ~+60°C	-25°C ~+60°C
Cooling Method	Natural Cooling	Smart Cooling
Protection Degree	IP65	IP65
Noise	<30dB	<50dB
Highest Altitude	3000m	3000m
Relative Humidity	0~100%	0~100%
Topology	Transformerless	Transformerless
Night Power Consumption	<0.5W	<0.5W
Max. Efficiency	98.10%	98.30%
European Efficiency	97.60%	97.80%
MPPT Efficiency	99.90%	99.90%
Display	LCD	
System Language	English / Chinese / German / Dutch / Polish	
Communication	Standard: RS485, Optional: WiFi / GPRS / Ethernet	

PROTECTION & CERTIFICATIONS`

Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Insulation impedance protection, RCD, Surge protection, Anti-islanding protection, Over temperature protection, Ground fault monitoring, etc.
Grid	IEC 61727:2004, IEC62116:2014, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683:1999, DIN VDE 0126-1-1:2013, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, C10/11:2019, AS/NZS 4777.2:2020, NB/T 32004-2018, PEA, ZVR, etc.
Connection	
Safety / EMC	IEC/EN 62109-1:2010, IEC/EN 62109-2:2011, EN 61000-6-2:2019, EN 61000-6-3:2007/A1:201


10
 YEAR
 WARRANTY

Three Phase On-Grid Solar Inverter

INPUT (DC)

Max. Input Power	8kW	12.8kW	16kW	24kW
Max. Input Voltage	1100V	1100V	1100V	1100V
Start Voltage	160V	160V	160V	160V
Rated Input Voltage	600V	600V	600V	600V
Full-load MPP Voltage Range	250V ~ 850V	320V ~ 850V	450V ~ 850V	500V ~ 850V
MPPT Voltage Range	140V ~ 1000V	140V ~ 1000V	140V ~ 1000V	180V ~ 1000V
Number of MPP Trackers / String per MPPT	2 / 1	2 / 1	2 / 1	2 - 1 / 2
Max. Current per MPPT	13A	13A	13A	14A / 28A
Max. Short Circuit Current per MPPT	16A	16A	16A	18A / 36A

AC OUTPUT DATA

Max. Output Current	8A	12.8A	15.9A	23.9A
Rated AC Power	5kW	8kW	10kW	15kW
Max. Output Power	5.5kVA	8.8kVA	11kVA	16.5kVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	>0.99 (0.8 leading~0.8 lagging)			
THDi	<3% (Rated Power)			

GENERAL DATA

Operating Temperature Range	-25°C ~+60°C	-25°C ~+60°C
Cooling Method	Natural Cooling	Natural Cooling
Protection Degree	IP65	IP65
Highest Altitude	4000m	4000m
Relative Humidity	0~100%	0~100%
Topology	Transformerless	Transformerless
Night Power Consumption	<0.5W	<0.5W
Max. Efficiency	98.40%	98.70%
European Efficiency	98.30%	98.50%
MPPT Efficiency	99.90%	99.90%
Display	LED / LCD (Optional)	
Communication	Standard: RS485 / USB - Optional: WiFi / GPRS / Ethernet	

PROTECTION & CERTIFICATIONS

Protection	DC reverse polarity protection, Anti-islanding protection, AC short circuit protection, Residual current monitoring unit, Insulation resistance monitoring, Ground fault monitoring, Grid monitoring, Surge protection (Type II), AFCI protection
Grid Connection	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2015, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011



Three Phase On-Grid Solar Inverter



30kW

Model No:	VT-6630305
SKU Code:	11507
Net Weight:	30`kg
Size(MM):	600 x 430 x 230

INPUT (DC)

Max. Input Power	48kW
Max. Input Voltage	1100V
Start Voltage	250V
Rated Input Voltage	600V
Full-load MPP Voltage Range	500V ~ 800V
MPPT Voltage Range	200V ~ 1000V
Number of MPP Trackers / String per MPPT	3/2
Max. Current per MPPT	26A
Max. Short Circuit Current per MPPT	32A

AC OUTPUT DATA

Max. Output Current	48.3A
Rated Output Power	30kW
Max. Output Power	33.3kVA
Rated Grid Frequency	50Hz / 60Hz
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE
Power Factor	>0.99 (0.8 leading~0.8 lagging)
THDi	<3% (Rated Power)

GENERAL DATA

Operating Temperature Range	-30° C ~ +60° C
Cooling Method	Smart Cooling
Protection Degree	IP66
Max. Operating Altitude	4000m
Relative Humidity	0 ~ 100%
Topology	Transformerless
Night Power Consumption	<1W
Max. Efficiency	98.60%
European Efficiency	98.50%
MPPT Efficiency	99.90%
Display	LED / LCD / WiFi+App (Optional)
Communication	Standard:RS485 / USB, Optional: WiFi / GPRS / Ethernet

PROTECTION & CERTIFICATIONS

Protection	DC reverse polarity protection, Anti-islanding protection, AC short circuit protection, Residual current monitoring unit, Insulation resistance monitoring, Ground fault monitoring, Grid monitoring, Surge protection (Type II), AFCI protection
Grid Connection	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011



Three Phase On-Grid Solar Inverter

30kW

Model No:	SUN-30K-G04
SKU Code:	11812
Net Weight:	23 kg
Size(MM):	362×577×21

INPUT (DC)

Max. DC Input Power (kW)	39
Max. DC Input Voltage (V)	1000
Start-up DC Input Voltage (V)	250
MPPT Operating Range (V)	200-850
Max. DC Input Current (A)	40+40
Max. Short Circuit Current (A)	60+60
No. of MPP Trackers	2
No. of Strings per MPP Tracker	3 +3

AC OUTPUT DATA

Rated Output Power (kW)	30
Max. Active Power (kW)	33
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V
Rated Grid Frequency (Hz)	50 / 60 (Optional)
Operating Phase	Three Phase
Rated AC Grid Output Current (A)	45.5/43.5
Max. AC Output Current (A)	50/47.9
Output Power Factor	0.8 leading to 0.8 lagging
Grid Current THD	<3%
DC Injection Current (mA)	<0.5%
Grid Frequency Range	45~55 or 55~65 (Optional)

GENERAL DATA

Topology	Transformerless
Internal Consumption	<1W (Night)
Running Temperature	-25-65°C, >45°C Derating
Ingress Protection	IP65
Noise Emission (Typical)	≤50 dB
Cooling Concept	Smart Cooling
Permissible Altitude (m)	2000
Max. Efficiency	98.60%
European Efficiency	97.80%
MPPT Efficiency	>99%
DC Connection	MC-4 Mateable
AC Connection	IP65 Rated Plug
Display	LCD1602
Interface	RS485/RS232/Wifi/LAN

PROTECTION & CERTIFICATIONS

Protection	DC Reverse-Polarity Protection, AC Short Circuit Protection, AC Output Overcurrent Protection, Output Overvoltage Protection, Insulation Resistance Protection, Ground Fault Monitoring, Anti-islanding Protection, Temperature Protection, Integrated DC Switch, Remote Software Upload, Remote Change of Operating Parameters, Surge Protection(DC Type II, AC Type II)
Grid-connection	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2



Three Phase On-Grid Solar Inverter



50kW

60kW

Model No:	VT-6607150
SKU Code:	11521
Net Weight:	50kg
Size(MM):	650 x 450 x 260

VT-61060
11631
50kg
650 x 450 x 260

INPUT (DC)

Max. Input Power
Max. Input Voltage
Start Voltage
Rated Input Voltage
Full-load MPP Voltage Range
MPPT Voltage Range
Number of MPP Trackers
Number of string per MPPT
Max. Current per MPPT
Max. Short Circuit Current per MPPT

80kW
1100V
250V
600V
520V ~ 850V
200V ~ 1000V
4
3 / 2 / 3 / 2
39A / 26A / 39A / 26A
48A / 32A / 48A / 32A

96kW
1100V
250V
600V
520V ~ 850V
200V ~ 1000V
4
3 / 3 / 3 / 3
39A
48A

AC OUTPUT DATA

Max. Output Current
Rated Output Power
Max. Output Power
Rated Grid Frequency
Rated Grid Voltage
Power Factor
THDi

79.7A
50kW
55kVA
50Hz / 60Hz
230Vac / 400Vac
>0.99 (0.8 leading~0.8 lagging)
<3% (Rated Power)

95.6A
60kW
66kVA
50Hz / 60Hz
230Vac / 400Vac
>0.99 (0.8 leading~0.8 lagging)
<3% (Rated Power)

GENERAL DATA

Operating Temperature Range
Cooling Method
Protection Degree
Max. Operating Altitude
Relative Humidity
Topology
Night Power Consumption
Max. Efficiency
European Efficiency
MPPT Efficiency
Display
Communication

-30° C ~ +60° C
Smart Cooling
IP66
4000m
0 ~ 100%
Transformerless
<1W
98.70%
98.40%
99.90%
LED / LCD / WiFi+App (Optional)
Standard:RS485 / USB, Optional: WiFi / GPRS / Ethernet

PROTECTION & CERTIFICATIONS

Protection	DC reverse polarity protection, Anti-islanding protection, AC short circuit protection, Residual current monitoring unit, Insulation resistance monitoring, Ground fault monitoring, Grid monitoring, Surge protection (Type II), AFCI protection
Grid Connection	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011

Three Phase On-Grid Solar Inverter



100kW

Model No:	VT-6607100
SKU Code:	11520
Net Weight:	95kg
Size(MM):	1050 x 660 x 330

INPUT (DC)

Max. Input Power	150kW
Max. Input Voltage	1100V
Start Voltage	250V
Rated Input Voltage	620V
Full-load MPP Voltage Range	530V ~ 850V
MPPT Voltage Range	180V ~ 1000V
Number of MPP Trackers	9
Number of string per MPPT	2
Max. Current per MPPT	26A
Max. Short Circuit Current per MPPT	40A

AC OUTPUT DATA

Max. Output Current	158.8A
Rated Output Power	100kW
Max. Output Power	110kVA
Rated Grid Frequency	50Hz / 60Hz
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE, 3L / PE
Power Factor	>0.99 (0.8 leading~0.8 lagging)
THDi	<3% (Rated Power)

GENERAL DATA

Operating Temperature Range	-30° C ~ +60° C
Cooling Method	Smart Cooling
Protection Degree	IP66
Max. Operating Altitude	4000m
Relative Humidity	0 ~ 100%
Topology	Transformerless
Night Power Consumption	<1W
Max. Efficiency	98.70%
European Efficiency	98.50%
MPPT Efficiency	99.90%
Display	LED / LCD / WiFi+App (Optional)
Communication	Standard:RS485 / USB, Optional: WiFi / GPRS / Ethernet

PROTECTION & CERTIFICATIONS

Protection	DC reverse polarity protection, Anti-islanding protection, AC short circuit protection, Residual current monitoring unit, Insulation resistance monitoring, Ground fault monitoring, Grid monitoring, V string monitoring, Surge protection (Type II) AFCI protection (Optional), PID recovery function (Optional), SVG function (Optional)
Grid	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99
Connection	
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011



Single Phase Hybrid Solar Inverter

10 YEAR
WARRANTY

 Model No: **SUN-3.6K-SG03LP1-EU**
 SKU Code: **11725**
3.6kW
CEI 0-21
CERTIFICATE

PV INPUT

Max. DC Input Power (W)	4680
Rated PV Input Voltage (V)	370 (125-500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load DC Voltage Range (V)	300-425
PV Input Current (A)	13+13
Max. PV ISC (A)	17+17
No.of MPP Trackers	2
No.of Strings per MPP Tracker	1+1

BATTERY PORT

Battery Type	Li-ion / Lead-acid
Battery Voltage Range(V)	40-60
Battery Normal Voltage(V)	51.2
Max. Charge/Discharge Current(A)	80
Max. Charge/Discharge Power(kW)	3.6

GENERAL DATA

Dimensions (Wx H x D, mm)	513 x 370 x 192
Weight (kg)	17
Topology	Transformerless
Cooling	Intelligent Fan
Relatively Humidity	0 - 100 %
Operating Temperature Range (°C)	- 25 to 60
Operating Altitude (m)	< 4000
Noise Emission (dB)	< 25
Standby Consumption (W)	< 10
Mounting	Wall Bracket
Communication with RSD	SUNSPEC
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G

AC LOAD OUTPUT

Nominal AC Voltage L-N(V)	220 / 230
Nominal AC Frequency(Hz)	50 / 60
Nominal AC Current(A)	16.4/15.7
Max Continuous Current(A)	17.0
Max Continuous Power(kVA)	3.6
Max Peak Current(A)(10min)	24.6/23.5
Max Peak Power(kVA)(10min)	5.4
Switching Time(s)	Seamless
Voltage THD(%)	< 3

AC GRID

Nominal Grid Voltage(V)	220 / 230
Nominal Grid Frequency(Hz)	50 / 60
Nominal Grid Current(A)	16.4/15.7
Max Continuous Current(A)	17.0
Max Continuous Power(kVA)	3.6
Current THD(%)	< 3
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%

PROTECTION & CERTIFICATIONS

Protection **PV Reverse Polarity Protection, Over Current/Voltage Protection, Anti-Islanding Protection, AC Short Circuit Protection, Residual Current Detection, Ground Fault Monitoring, Insulation Resister Detection, PV Arc Detection, Enclosure Protect Level**

Certification & Approvals **NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105,VDE0126, IEC62040, IEC62109-1, IEC62109-2**

EMC **EN61000-6-2, EN61000-6-3**

NEW

Single Phase Low-voltage Hybrid Inverters

10
 YEAR
 WARRANTY

CEI 0-21
 CERTIFICATE

3.6KW

 Model No:
 SKU Code:

Isuna 3600S
12157
5kW
Isuna 5000S
12158
6kW
Isuna 6000S
12156

Higher Reliability

IP65 Outdoor and Indoor use
 Natural cooling, Ultra silence
 SiC technology, Longer lifespan
 Plug-in design, Easy to install

High Capability

15 units in parallel

Auto sleep
 VPP interface ready
 Cloud + Smart data analysis

Smart Monitoring

UPS function
 Flexible DO control
 10ms on/off-grid switchover
 100% three phase unbalance

Strong Load Adaptability

GENERAL DATA

Size(L*W*H)

500mm*470mm*180mm

Weight

21kg

Noise

<25dB(A)

Operating Temperature Range

-25°C~+60°C

Cooling Method

Natural cooling

Ingress Protection Grade

IP65

Monitoring

H5/LED/APP/WIFI/4G/Bluetooth

Communication Port

RS485/CAN/DRED/DO/Parallel port





Single Phase Low-voltage Hybrid Inverters

3.6KW
5kW
6kW

 Model No: **VT-Isuna 3600S**
 SKU Code: **12157**

 Model No: **VT-Isuna 5000S**
 SKU Code: **12158**

 Model No: **VT-Isuna 6000S**
 SKU Code: **12156**

OFF-GRID OUTPUT

Nominal Output Power	3600W	5000W	6000W
Nominal Voltage	230V	230V	230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Nominal Output Current	16.4A	22.7A	27.2A
THDu	<2%	<2%	<2%

ON-GRID PARAMETER

Nominal Output Power	3600W	5000W	6000W
Max. Output Current	16.4A	22.7A	27.2A
Nominal Grid Voltage	230V	230V	230V
Max. Input Current from Grid	22.7A	27.2A	22.2A
Grid Voltage Range	184-264V	184-264V	184-264V
Frequency Range	45-65Hz	45-65Hz	45-65Hz

PV INPUT

Max. Input Power	6000Wp	7500Wp	9000Wp
Starting Voltage	95V	95V	95V
Max. Input Voltage	600V	600V	600V
MPPT Voltage Range	80-550V	80-550V	80-550V
Full Load MPPT Voltage Range	350-500V	350-500V	350-500V
Number of MPPT	2	2	2
Max. Input String Per MPPT	1	1	1
Nominal Input Voltage	360V	360V	360V
Max. Input Current	18A/18A	18A/18A	18A/18A

BATTERY PARAMETER

Battery Type	Lithium-ion battery	Lithium-ion battery	Lithium-ion battery
Nominal Battery Voltage	51.2V	51.2V	51.2V
Battery Voltage Range	42-58V	42-58V	42-58V
Max. Charging Voltage	≤60V	≤60V	≤60V
Max. Charging/Discharging Current	85A	100A	100A

PROTECTION & CERTIFICATIONS`

Protection	DC Switch, PV Insulation Resistance Detection, Residual Current Monitoring, Anti-islanding Protection, Reverse Polarity Protection(PV), AC Short Circuit Protection, AC Overcurrent Protection, AC Overvoltage Protection, Surge Protection, Lightning Protection II
CE_LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2
CE_EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Grid	VDE-AR-N 4105, G99, CEI 0-21, EN50549, NRS 097-2-1, R25,C10-11,NTS 2.1



Single Phase Hybrid Solar Inverter

3.6kW

Model No: **VT-6607136**
 SKU Code: **11576 - 11955 Italian**

10 YEAR
WARRANTY

CEI 0-21
CERTIFICATE

PV INPUT

Max. Input Power(kW)	5.4
Max. PV Voltage(V)	550
MPPT Range(V)	80-500
full MPPT Range(V)	210-500
Normal Voltage(V)	360
Startup Voltage(V)	100
Max. Input Current(A)	18.5*1
Max. Short Current(A)	26*1
No. of MPP Tracker / No. of PV String	1.0/1.0

AC LOAD OUTPUT

Nominal AC Voltage L-N(V)	220 / 230
Nominal AC Frequency(Hz)	50 / 60
Nominal AC Current(A)	16.4/15.7
Max Continuous Current(A)	17.0
Max Continuous Power(kVA)	3.6
Max Peak Current(A)(10min)	24.6/23.5
Max Peak Power(kVA)(10min)	5.4
Switching Time(s)	Seamless
Voltage THD(%)	< 3

BATTERY PORT

Battery Type	Li-ion / Lead-acid
Battery Voltage Range(V)	40-60
Battery Normal Voltage(V)	51.2
Max. Charge/Discharge Current(A)	80
Max. Charge/Discharge Power(kW)	3.6

AC GRID

Nominal Grid Voltage(V)	220 / 230
Nominal Grid Frequency(Hz)	50 / 60
Nominal Grid Current(A)	16.4/15.7
Max Continuous Current(A)	17.0
Max Continuous Power(kVA)	3.6
Current THD(%)	< 3
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)

GENERAL DATA

Dimensions (L x W x H, mm)	513 x 370 x 192
Weight (kg)	17
Topology	Transformerless
Cooling	Intelligent Fan
Relatively Humidity	0 - 100 %
Operating Temperature Range (°C)	- 25 to 60
Operating Altitude (m)	< 4000
Noise Emission (dB)	< 25
Standby Consumption (W)	< 10
Mounting	Wall Bracket
Communication with RSD	SUNSPEC
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G

EFFICIENCY

CEC Efficiency(%)	97
Max. Efficiency(%)	97.6
PV to Bat. Efficiency(%)	98.1
Bat. between AC Efficiency(%)	96.8

PROTECTION & CERTIFICATIONS

Protection **PV Reverse Polarity Protection, Over Current/Voltage Protection, Anti-Islanding Protection, AC Short Circuit Protection, Residual Current Detection, Ground Fault Monitoring, Insulation Resister Detection, PV Arc Detection, Enclosure Protect Level**

Certification & Approvals **NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2**

EMC **EN61000-6-2, EN61000-6-3**

Single Phase Hybrid Solar Inverter

5kW

 Model No: **VT-6607103**

 SKU Code: **11509**


INPUT (PV)

Max. PV Input Power	7kW
Max. PV Input Voltage	550V
MPP Voltage Range	125V ~ 500V
Max. PV Input Current	14A
Number of MPP Trackers	2
String per MPPT	1

OUTPUT (EPS)

Rated Power	5kVA
Rated Voltage	230Vac
Rated Current	21.7A
Rated Frequency	50Hz / 60Hz
Automatic Switching Time	<20ms
Overload Capability	110%, 30s / 120%, 10s / 150%, 0.02s
THDu	<2%

OUTPUT (AC)

Max. Output Current	21.7A
Rated Power	5kW
Rated Voltage	230V, L + N + PE
Operating Voltage Range	176V ~ 270V
Frequency	50Hz / 60Hz
Power Factor	0.8 lagging~0.8 leading
THDi	<3%

BATTERY

Battery Voltage Range	40V ~ 58V
Max. Charging Voltage	58V
Charge / Discharge Current	95A / 104.2A
Battery Type	Lithium / Lead-acid
Communication	RS485, CAN

EFFICIENCY

Max. DC Efficiency	97.60%
European Efficiency	97.00%
MPPT Efficiency	99.90%
Battery Charge / Discharge Efficiency	95.00%

GENERAL DATA

Dimensions (L x W x H, mm)	550 x 515 x 200
Weight (kg)	25kg
Operation Temperature	-25°C~ +60°C
Cooling Method	Natural Cooling
Protection Degree	IP65
Noise Emission	<35dB
Max. Operating Altitude	2000m
Relative Humidity	0 ~ 95% (non-condensing)
Topology	Transformerless
Standby Power Consumption	<3W

COMMUNICATION

Display	LCD
Communication	Standard: RS485 / CAN / DRM Optional: WIFI / 4G

STANDARD COMPLIANCE

Certifications	CE, TUV, SAA, NRS
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Single Phase Hybrid Solar Inverter

5kW

 Model No: **VT-6607105**

 SKU Code: **11819**


PV INPUT

Max. Input Power(kW)	7.5
Max. PV Voltage(V)	550
MPPT Range(V)	80-500
full MPPT Range(V)	150-500
Normal Voltage(V)	360
Startup Voltage(V)	100
Max. Input Current(A)	18.5*2
Max. Short Current(A)	26*2
No. of MPP Tracker / No. of PV String	2/2

AC LOAD OUTPUT

Nominal AC Voltage L-N(V)	220 / 230
Nominal AC Frequency(Hz)	50 / 60
Nominal AC Current(A)	22.8/21.8
Max Continuous Current(A)	23.0
Max Continuous Power(kVA)	5.0
Max Peak Current(A)(10min)	34.1/32.7
Max Peak Power(kVA)(10min)	7.5
Switching Time(s)	Seamless
Voltage THD(%)	< 3

BATTERY PORT

Battery Type	Li-ion / Lead-acid
Battery Voltage Range(V)	40-60
Battery Normal Voltage(V)	51.2
Max. Charge/Discharge Current(A)	80
Max. Charge/Discharge Power(kW)	4.8

AC GRID

Nominal Grid Voltage(V)	220 / 230
Nominal Grid Frequency(Hz)	50 / 60
Nominal Grid Current(A)	22.8/21.8
Max Continuous Current(A)	23.0
Max Continuous Power(kVA)	5.0
Current THD(%)	< 3
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)

GENERAL DATA

Dimensions (L x W x H, mm)	513 x 370 x 192
Weight (kg)	17
Topology	Transformerless
Cooling	Intelligent Fan
Relatively Humidity	0 - 100 %
Operating Temperature Range (°C)	- 25 to 60
Operating Altitude (m)	< 4000
Noise Emission (dB)	< 25
Standby Consumption (W)	< 10
Mounting	Wall Bracket
Communication with RSD	SUNSPEC
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G

EFFICIENCY

CEC Efficiency(%)	97
Max. Efficiency(%)	97.6
PV to Bat. Efficiency(%)	98.1
Bat. between AC Efficiency(%)	96.8

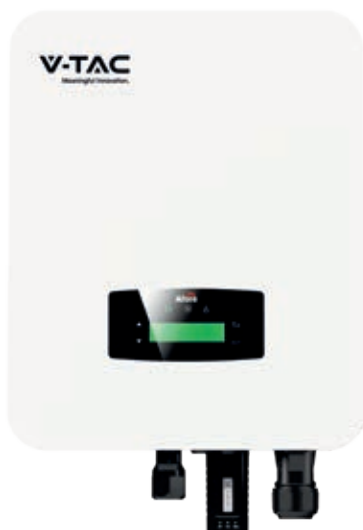
PROTECTION & CERTIFICATIONS

Protection PV Reverse Polarity Protection, Over Current/Voltage Protection, Anti-Islanding Protection, AC Short Circuit Protection, Residual Current Detection, Ground Fault Monitoring, Insulation Resister Detection, PV Arc Detection, Enclosure Protect Level

Certification & Approvals NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2

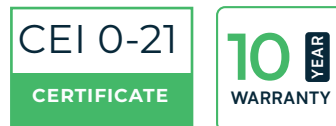
EMC EN61000-6-2, EN61000-6-3

Single Phase Hybrid Solar Inverter



6kW

Model No: **VT-AF6K-SLP**
 SKU Code: **11953**



INPUT (PV)

Max. Input Power (kW)	9.0
Max. PV Voltage (V)	550
MPPT Range (V)	80 - 500
Full MPPT Range (V)	170 - 500
Normal Voltage (V)	360
Startup Voltage (V)	100
Max. Input Current (A)	18.5 x 2
Max. Short Current (A)	26 x 2
No. of MPP Tracker / No. of PV String	2 / 2

OUTPUT (AC)

Max Continuous Current (A)	28.0
Max Continuous Power (kVA)	6.0
Max Peak Current (A) (10min)	41.0 / 39.2
Max Peak Power (kVA) (10min)	9.0
Nominal AC Current (A)	27.3 / 26.1
Nominal AC Voltage L-N (V)	220 / 230
Nominal AC Frequency (Hz)	50 / 60
Switching Time (s)	Seamless
Voltage THD (%)	< 3

COMMUNICATION

Display	LCD, LED
Communication	RS485, CAN, Wi-Fi, GPRS, 4G

STANDARD COMPLIANCE

Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2
EMC	EN61000-6-2, EN61000-6-3

BATTERY

Max. Charge/Discharge Power (kW)	4.8
Max. Charge/Discharge Current (A)	80
Battery Normal Voltage (V)	51.2
Battery Voltage Range (V)	40 - 60
Battery Type	Li-ion / Lead-acid

AC GRID

Max Continuous Current (A)	28.0
Max Continuous Power (kVA)	6.0
Nominal Grid Current(A)	27.3 / 26.1
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230
Nominal Grid Frequency (Hz)	50 / 60
Current THD (%)	< 3
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)

EFFICIENCY

CEC Efficiency (%)	97.0
Max. Efficiency (%)	97.6
PV to Bat. Efficiency (%)	98.1
Bat. between AC Efficiency (%)	96.8

GENERAL DATA

Dimensions (L x W x H, mm)	513 x 370 x 192
Weight (kg)	17
Topology	Transformerless
Cooling	Intelligent Fan
Relatively Humidity	0 - 100 %
Operating Temperature Range (°C)	- 25 to 60
Operating Altitude (m)	< 4000
Noise Emission (dB)	< 25
Standby Consumption (W)	< 10
Mounting	Wall Bracket
Communication with RSD	SUNSPEC



Single Phase Hybrid Solar Inverter

10
 YEAR
 WARRANTY

Model No:

SUN-5K-SG03LP1-EU

SKU Code:

11547
CEI 0-21
CERTIFICATE
5kW

PV INPUT

Max. DC Input Power (W)	6500
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load DC Voltage Range (V)	300-425
PV Input Current (A)	13+13
Max. PV ISC (A)	17+17
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1

BATTERY PORT

Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	120
Max. Discharging Current (A)	120
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

AC LOAD OUTPUT

Rated AC Output and UPS Power (W)	5000
Max. AC Output Power (W)	5500
AC Output Rated Current (A)	25/23.9
Max. AC Current (A)	22.7/21.7
Max. Continuous AC Passthrough (A)	35
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Grid Type	THD<3% (Linear load<1.5%)
DC injection current (mA)	Single Phase
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac

GENERAL DATA

Dimensions (W x H x D, mm)	30W x 580H x 232D
Weight (kg)	24kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Natural cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%

PROTECTION & CERTIFICATIONS

Integrated **PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection**

Output Over Voltage Protection **DC Type II/AC Type III**

Grid Regulation **VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150**



Single Phase Hybrid Solar Inverter

6kW

10 YEAR
WARRANTY

 Model No: **SUN-6K-SG05LP1-EU**
 SKU Code: **11537**
11529 -ITALIAN SPECIFICATION
CEI 0-21
CERTIFICATE

PV INPUT

Max. DC Input Power (W)	7800
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load DC Voltage Range (V)	300-425
PV Input Current (A)	13+13
Max. PV ISC (A)	17+17
No.of MPP Trackers	2
No.of Strings per MPP Tracker	1

BATTERY PORT

Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	135
Max. Discharging Current (A)	135
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

AC LOAD OUTPUT

Rated AC Output and UPS Power (W)	6000
Max. AC Output Power (W)	6600
AC Output Rated Current (A)	27.3/26.1
Max. AC Current (A)	30/28.7
Max. Continuous AC Passthrough (A)	40A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Grid Type	Single Phase
DC injection current (mA)	THD<3% (Linear load<1.5%)
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac

GENERAL DATA

Dimensions (W x H x D, mm)	30W x 580H x 232D
Weight (kg)	24kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Natural cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%

PROTECTION & CERTIFICATIONS

 Integrated **PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection**

 Output Over Voltage Protection **DC Type II/AC Type III**

 Grid Regulation **VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150**

 Safety EMC / Standard **IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2**



Single Phase Hybrid Solar Inverter

10
 YEAR
 WARRANTY

 Model No: **SUN-8K-SG01LP1-EU**
 SKU Code: **11803**
8kW

AC LOAD OUTPUT

Rated AC Output and UPS Power (W)	8000
Max. AC Output Power (W)	8800
AC Output Rated Current (A)	33.3/38.5
Max AC Output Current (A)	36.7/42.3
Max. Continuous AC Passthrough (A)	50A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Grid Type	Split Phase; 2/3 phase; Single Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In
Output Frequency and Voltage	50 / 60Hz; L1/L2/N(PE) 120/240Vac (split phase), 208Vac (2/3 phase), L/N/PE 220/230Vac (single phase)

PV INPUT

Max. DC Input Power (W)	10400
Rated PV Input Voltage (V)	370 (125-500)
Start-up Voltage (V)	125V
MPPT Voltage Range (V)	150-425V
Full Load DC Voltage Range (V)	200-425V
PV Input Current (A)	26+26
Max. PV ISC (A)	44+44
No. of MPP Trackers	2
No. of Strings per MPP Tracker	2+2

BATTERY PORT

Battery Type	Lead-acid or Lithium
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	190A
Max. Discharging Current (A)	190A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

GENERAL DATA

Dimensions (W x H x D, mm)	420×670×233
Weight (kg)	32kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Smart cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

PROTECTION & CERTIFICATIONS

Integrated **Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection**

Output Over Voltage Protection **DC Type II/AC Type III**

Grid Regulation **VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150**

Safety EMC / Standard **IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2**

NEW

Single Phase Hybrid Solar Inverter

10 YEAR
WARRANTY
16kW

 Model No: **SUN-16K-SG01LP1-EU**
 SKU Code: **12159**


AC LOAD OUTPUT

Rated AC Input/Output Active Power (W)	16000
Max. AC Input/Output Apparent Power (VA)	17600
Rated AC Input/Output Current (A)	72.7/69.6
Max. AC Input/Output Current (A)	80/76.5
Max. Continuous AC Passthrough (grid to load) (A)	100
Peak Power (off-grid) (W)	2 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5% In

PV INPUT

Max. PV Input Power (W)	20800
Max. PV Input Voltage (V)	500
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Rated PV Input Voltage (V)	370
Max. Operating PV Input Current (A)	26+26+26
Max. Input Short-Circuit Current (A)	44+44+44
No. of MPP Trackers	3
No. of Strings per MPP Tracker	2+2+2

GENERAL DATA

Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise (dB)	<50
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	464×763×282
Weight (kg)	52kg
Type of Cooling	Intelligent Air Cooling

BATTERY PORT

Battery Type	Lead-acid or Lithium
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	290
Max. Discharging Current (A)	290
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	2

EFFICIENCY

Max. Efficiency	97.6%
Euro Efficiency	96.5%
MPPT Efficiency	>99%

PROTECTION & CERTIFICATIONS

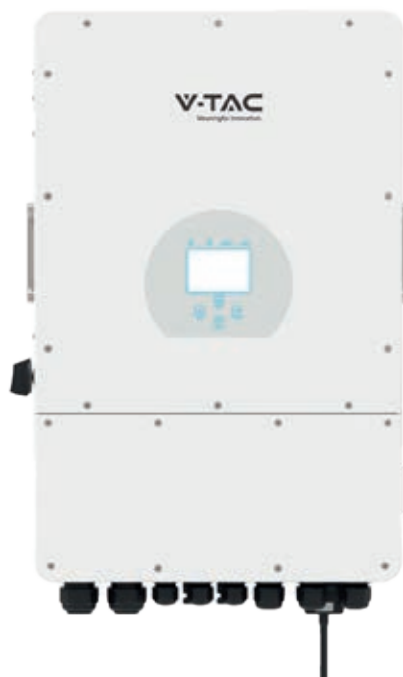
Integrated DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level Surge Protection Level: TYPE II(DC), TYPE II(AC)

Grid Regulation IEC 61727, IEC 62116, AS 4777.2, NRS 097

Safety EMC / Standard IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

Warranty 10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy

Three Phase Hybrid Solar Inverter


CEI 0-21
CERTIFICATE
10 YEAR
WARRANTY

 Model No: **SUN-5K-SG04LP3-EU**
 SKU Code: **11743**
5kW

AC LOAD OUTPUT

Rated AC Output Active Power (W)	5000
Max AC Output Active Power (W)	5500
AC Output Rated Current (A)	7.6/7.2
Max AC Output Current (A)	8.4/8
Max. Three-phase Unbalanced Output Current (A)	11.4/10.9
Max Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	45
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In

BATTERY PORT

Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	120A
Max. Discharging Current (A)	120A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

GENERAL DATA

Dimensions (W x H x D, mm)	422×702×281
Weight (kg)	33.6kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Smart Cooling
Noise (dB)	≤45 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

PV INPUT

Max. DC Input Power (W)	6500
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	13+13
Max. PV ISC (A)	17+17
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1+1

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

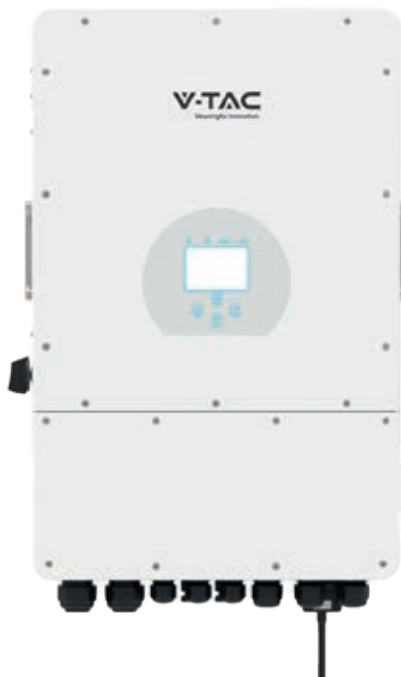
PROTECTION & CERTIFICATIONS

 Surge Protection **DC Type III / AC Type III**
 Over Voltage Category **DC Type II/AC Type III**

 Integrated **Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection**

 Grid Regulation **VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150**

 Safety EMC / Standard **IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2**



Three Phase Hybrid Solar Inverter

CEI 0-21
CERTIFICATE
10
YEAR
WARRANTY

 Model No: **SUN-6K-SG04LP3-EU**
 SKU Code: **11788**
6kW

AC LOAD OUTPUT

Rated AC Output Active Power (W)	6000
Max AC Output Active Power (W)	6600
AC Output Rated Current (A)	9.1/8.7
Max AC Output Current (A)	10/9.6
Max. Three-phase Unbalanced Output Current (A)	13.6/13
Max Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	45
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In

BATTERY PORT

Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	150A
Max. Discharging Current (A)	150A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

PV INPUT

Max. DC Input Power (W)	7800
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	13+13
Max. PV ISC (A)	17+17
No.of MPP Trackers	2
No.of Strings per MPP Tracker	1+1

GENERAL DATA

Dimensions (Wx H x D, mm)	422×702×281
Weight (kg)	33.6kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Smart Cooling
Noise (dB)	≤45 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

EFFICIENCY

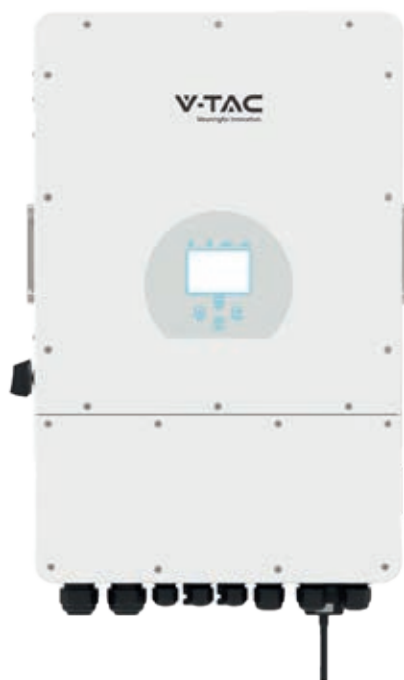
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

PROTECTION & CERTIFICATIONS

 Surge Protection **DC Type III / AC Type III**
 Over Voltage Category **DC Type II/AC Type III**

 Integrated **Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection**

 Grid Regulation **VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150**



NEW

Three Phase Hybrid Solar Inverter

CEI 0-21

CERTIFICATE

10 YEAR
 WARRANTY

SKU Code:

8kW

11835

AC LOAD OUTPUT

Rated AC Output and UPS Power (W)	8000
Max. AC Output Power (W)	8800
Peak Power (off grid)	2 times of rated power, 10 S
AC Output Rated Current (A)	12
Max. AC Current (A)	18
Max. Continuous AC Passthrough (A)	50
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)
Grid Type	Three Phase
Current Harmonic Distortion	THD<3% (Linear load<1.5%)

BATTERY INPUT DATA

Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
Charging Curve	3 Stages / Equalization
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

PV INPUT

Max. DC Input Power (W)	10400
PV Input Voltage (V)	550 (150~800)
MPPT Range (V)	200~650
Start-up Voltage (V)	160
PV Input Current (A)	13+13
Max. PV ISC (A)	17+17
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	1+1

GENERAL DATA

Operating Temperature Range (°C)	-25~60°C, >45°C derating
Cooling	Smart cooling
Noise (dB)	<45 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted
Net Weight :	34.5kg
Product Size :	422W×658H×281D

EFFICIENCY

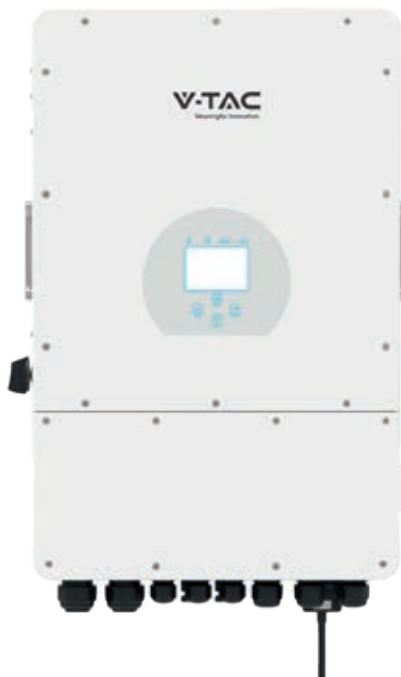
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

PROTECTION & CERTIFICATIONS

Integrated Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection: DC Type II / AC Type II

Grid Regulation IEC61727, IEC62116, IEC60068, IEC61683, NRS 097-2-1

Safety EMC / Standard IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2



Three Phase Hybrid Solar Inverter

CEI 0-21
CERTIFICATE
10 YEAR
WARRANTY
10kW

 Model No: **SUN-10K-SG04LP3-EU**
 SKU Code: **11542**

AC LOAD OUTPUT

Rated AC Output Active Power (W)	10000
Max AC Output Active Power (W)	11000
AC Output Rated Current (A)	15.2/14.5
Max AC Output Current (A)	16.7/15.9
Max. Three-phase Unbalanced Output Current (A)	22.7/21.7
Max Output short circuit current (A)	75A
Max. Continuous AC Passthrough (A)	40A
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In

BATTERY PORT

Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	210A
Max. Discharging Current (A)	210A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

GENERAL DATA

Dimensions	422W x 699.3H x279D
Weight (kg)	33.6kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Smart Cooling
Noise (dB)	≤45 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

PV INPUT

Max. DC Input Power (W)	13000
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160V
MPPT Voltage Range (V)	200V-650V
Full Load DC Voltage Range (V)	350V-650
PV Input Current (A)	26+13
Max. PV ISC (A)	34+17
No.of MPP Trackers	2
No.of Strings per MPP Tracker	2+1

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

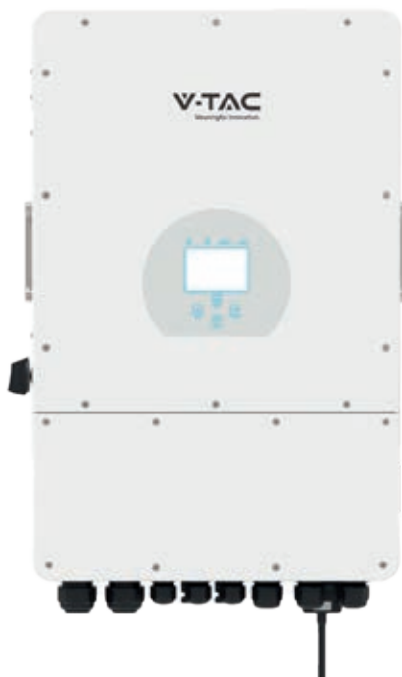
PROTECTION & CERTIFICATIONS

 Surge Protection **DC Type III / AC Type III**
 Over Voltage Category **DC Type II/AC Type III**

 Integrated **Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection**

 Grid Regulation **VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150**

 Safety EMC / Standard **IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2**



Three Phase Hybrid Solar Inverter

CEI 0-21

CERTIFICATE

10 YEAR WARRANTY

Model No:

SUN-12K-SG04LP3-EU

SKU Code:

11543

12kW

AC LOAD OUTPUT

Rated AC Output Active Power (W)	12000
Max AC Output Active Power (W)	13200
AC Output Rated Current (A)	18.2/17.4
Max AC Output Current (A)	20/19.1
Max. Three-phase Unbalanced Output Current (A)	27.3/26.1
Max Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	45
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In

BATTERY PORT

Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	240A
Max. Discharging Current (A)	240A
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

PV INPUT

Max. DC Input Power (W)	15600
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	26+13
Max. PV ISC (A)	34+17
No. of MPP Trackers	2
No. of Strings per MPP Tracker	2 +1

GENERAL DATA

Dimensions (Wx H x D, mm)	422×702×281
Weight (kg)	33.6kg
Operating Temperature Range (°C)	-40~60°C, >45°C derating
Cooling	Smart Cooling
Noise (dB)	≤45 dB
Communication with BMS	RS485; CAN
Protection Degree	IP65
Installation Style	Wall-mounted

PROTECTION & CERTIFICATIONS

Surge Protection DC Type III / AC Type III
 Over Voltage Category DC Type II/AC Type III

Integrated Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection

Grid Regulation VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150

Safety EMC / Standard IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2


10 YEAR
WARRANTY
CEI 0-21
CERTIFICATE
NEW

Three Phase Hybrid Inverters

15kW

20kW

Model No:	SUN-15K-SG05LP3-EU-SM2
SKU Code:	12184
Size WxHxD	456×750×268.5
Weight (kg)	50.6

SUN-20K-SG05LP3-EU-SM2
12185
456×750×268.5
50.6

AC INPUT/OUTPUT DATA

Rated AC Input/Output Active Power (W)	15000	20000
Max. AC Input/Output Apparent Power (VA)	15000	20000
Rated AC Input/Output Current (A)	22.8/21.8	30.4/29
Max. AC Input/Output Current (A)	22.8/21.8	30.4/29
Max. Continuous AC Passthrough (grid to load) (A)	70	
Peak Power (off-grid) (W)	2 times of rated power, 10s	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un	
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Grid Connection Form	3L+N+PE	
Total Current Harmonic Distortion THDi	<3% (of nominal power)	
DC Injection Current	<0.5% In	

PV INPUT

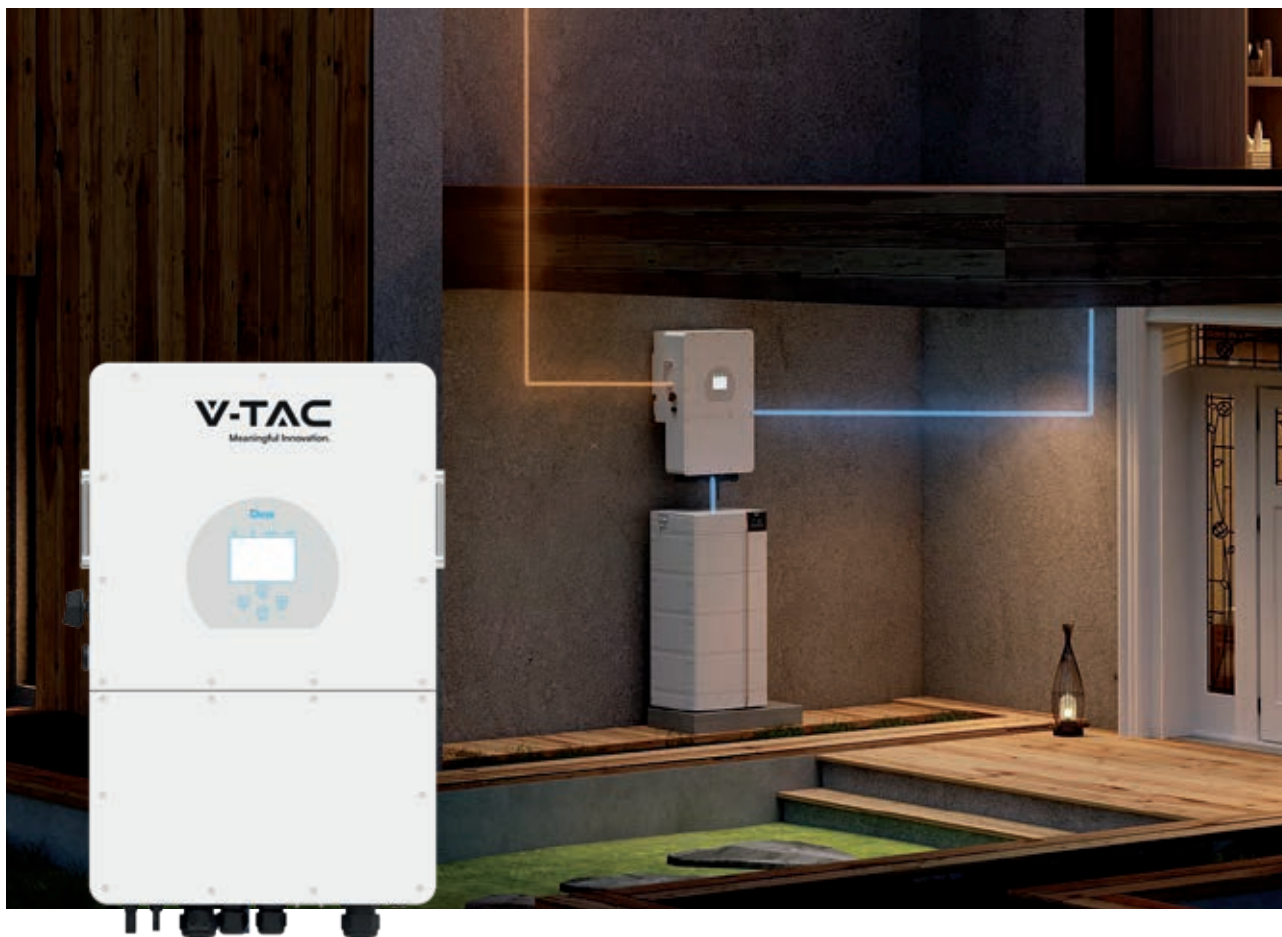
Max. PV Input Power (W)	22500	30000
Max. PV Input Voltage (V)	800	800
Start-up Voltage (V)	160	160
MPPT Voltage Range (V)	160-650	160-650
Rated PV Input Voltage (V)	550	550
Max. Operating PV Input Current (A)	36+20	36+20
Max. Input Short-Circuit Current (A)	54+30	54+30
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/2+2	2/2+2

BATTERY PARAMETER

Battery Type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60	40-60
Max. Charging Current (A)	280	350
Max. Discharging Current (A)	280	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS	Self-adaption to BMS
Number of Battery Input	1	1

PROTECTION & CERTIFICATIONS`

Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch. Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level, Surge Protection Level: TYPE II(DC), TYPE II(AC)	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

NEW**Three Phase Hybrid Inverters**CEI 0-21
CERTIFICATE**10** YEAR
WARRANTYModel No:
SKU Code:**10KW**SUN-10K-SG01HP3-EU-AM
12168**15kW**SUN-15K-SG01HP3-EU-AM
12169**20kW**SUN-20K-SG01HP3-EU-AM
12170**GENERAL DATA**

Operating Temperature Range (°C)

-40 to +60°C, >45°C Derating

Permissible Ambient Humidity

0-100%

Permissible Altitude

2000m

Noise (dB)

≤55

Ingress Protection(IP) Rating

IP 65

Inverter Topology

Non-Isolated

Over Voltage Category

OVC II(DC), OVC III(AC)

Cabinet Size (WxHxD mm)

408×638×237 (Excluding Connectors and Brackets)

Weight (kg)

30.5

Type of Cooling

Intelligent Air Cooling

Warranty

5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter,
More Info Please Refer to Warranty Policy



Three Phase Hybrid Inverters

10KW
15kW
20kW

Model No:	SUN-10K-SG01HP3-EU-AM	SUN-15K-SG01HP3-EU-AM	SUN-20K-SG01HP3-EU-AM
SKU Code:	12168	12169	12170

AC INPUT/OUTPUT DATA

Rated AC Input/Output Active Power (W)	10000	15000	20000
Max. AC Input/Output Apparent Power (VA)	11000	16500	22000
Rated AC Input/Output Current (A)	15.2/14.5	22.8/21.8	30.4/29
Max. AC Input/Output Current (A)	16.7/16	25/24	33.4/31.9
Max. Three-phase Unbalanced Output Current (A)	22	30	35
Max. Continuous AC Passthrough (grid to load) (A)	40	80	80
Peak Power (o-grid) (W)	1.5 times of rated power, 10s		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un		
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Grid Connection Form	3L+N+PE		
Total Current Harmonic Distortion THDi	<3% (of nominal power)		
DC Injection Current	<0.5% In		

PV INPUT

Max. PV Input Power (W)	13000	19500	26000
Max. PV Input Voltage (V)	1000	1000	1000
Start-up Voltage (V)	180	180	180
MPPT Voltage Range (V)	150-850	150-850	150-850
Rated PV Input Voltage (V)	600	600	600
Max. Operating PV Input Current (A)	20+20	26+20	26+26
Max. Input Short-Circuit Current (A)	30+30	39+30	39+39
No. of MPP Trackers/ No. of Strings per MPP	2/1+1	2/2+1	2/2+2
Tracker			

BATTERY PARAMETER

Battery Type	Lithium-ion
Battery Voltage Range (V)	160-700
Max. Charging Current (A)	37
Max. Discharging Current (A)	37
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	1

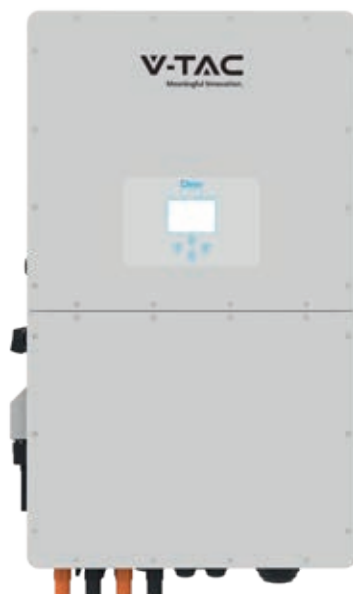
PROTECTION & CERTIFICATIONS`

Protection	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level: TYPE II(DC), TYPE II(AC)
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

NEW

Three Phase Hybrid Solar Inverter

50kW


 Model No: **SUN-50K-SG01HP3-EU-BM4**
 SKU Code: **11861**

AC LOAD OUTPUT

Rated AC Output Active Power (W)	50000
Max. AC Output Active Power (W)	55000
AC Output Rated Current (A)	75.8/72.5
Max. AC Output Current (A)	83.4/79.7
Max. Three-phase Unbalanced Output Current (A)	83.3
Max. Continuous AC Passthrough (A)	200
Peak Power (Off Grid)	1.5 time of rated power, 10 S
Generator Input/Smart Load /AC Couple Current (A)	75.8 / 200 / 75.8
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% In

BATTERY PORT

Battery Type	Lithium-ion
Battery Voltage Range (V)	160-800
Max. Charging Current (A)	50+50
Max. Discharging Current (A)	50+50
Number of Battery Input	2
Charging Strategy for Li-Ion Battery	Self-adaption to BMS

GENERAL DATA

Operating Temperature Range (°C)	-40~60°C, >45°C Derating
Cooling	Smart Cooling
Noise (dB)	≤65 dB
Communication with BMS	CAN
Weight (kg)	80
Protection Degree	IP65
Installation Style	Wall-mounted
Cabinet Size (WxHxD mm)	527×894×294

PV INPUT

Max. DC Input Power (W)	65000
Max. DC Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Range (V)	150-850
Full Load DC Voltage Range (V)	450-850
Rated DC Input Voltage (V)	600
PV Input Current (A)	36+36+36+36
Max. PV ISC (A)	55+55+55+55
No. of MPP Trackers	4
No. of Strings per MPP Tracker	2+2+2+2

EFFICIENCY

Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

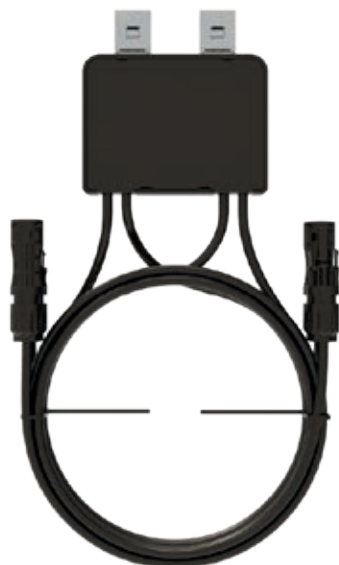
PROTECTION & CERTIFICATIONS

Integrated Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection, Arc Fault Circuit Interruption (AFCI optional)

Grid Regulation IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105

Safety EMC / Standard IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

PV Module Optimizer



NEW

700W

Model No: VT-SUN-XL02-A

SKU Code: 11946

Maximum input power(W)	700W
Maximum input voltage(V)	80V
MPPT voltage range (V)	12-80V
Maximum input current (A)	15A
Peak conversion efficiency	99.5%
Installation specifications dimensions(mm)	105×105×22mm
Weight (g)	600g
Cable	4.0mm ² input 70cm output 100cm
Connector	MC4 Or Compatible with MC4
Operating temperature range	-40°C ~ +85°C
Level of protection	IP68
Product certification	CE

Increase in power generation capacity:

Module-level maximum power point tracking (MPPT) can increase power generation by 5% to 25%.

Photovoltaic MicroInverter



NEW

800W

Model No: **SUN-M80G4-EU-Q0**SKU Code: **11857**

AC OUTPUT DATA

Rated AC Output Active Power (W)	800
Max. AC Output Apparent Power (VA)	800
Rated AC Output Current (A)	3.7/3.5
Max. AC Output Current (A)	3.7/3.5
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un
Grid Connection Form	L/N/PE
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Max. Unit per Branch	6
Power Factor Adjustment Range	0.9 leading-0.9 lagging
Total Current Harmonic Distortion THDi	<3%
DC Injection Current	<0.5%In

GENERAL DATA

Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	2000m
Noise (dB)	≤25
Ingress Protection(IP) Rating	IP 67
Inverter Topology	Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	280.5×190×40
Weight (kg)	3kg
Warranty	15 year
Type of Cooling	Natural Cooling

INPUT DATA (DC)

Max. PV Input Power (W)	210-560(2 Pieces)
Max. PV Input Voltage (V)	60
Start-up Voltage (V)	42.5
MPPT Voltage Range (V)	20
Rated PV Input Voltage (V)	25-55
Max. Operating PV Input Current (A)	13+13
Max. Input Short Circuit Current (A)	19.5+19.5
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1

EFFICIENCY

Max. Efficiency	96.5%
Euro Efficiency	96.0%
MPPT Efficiency	>99%

INTERFACE

Communication Interface	WiFi
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PROTECTION & CERTIFICATIONS

Equipment Protection DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, Overvoltage Load Drop Protection

Grid Regulation IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105

Safety EMC / Standard IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

BATTERY STORAGE SOLUTIONS

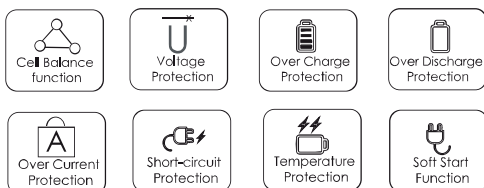
V-TAC
Meaningful Innovation.



Having batteries in your solar power system gives you more energy self-sufficiency, and helps you achieve your ROI. We offer different types of safe, reliable battery solutions to meet power storage needs depending on a variety of factors – the solar array size, backup power requirements, and overnight energy consumption in kWh.



NEW Rechargeable Li-ion Battery System



CEI 0-21
CERTIFICATE

10 YEAR
WARRANTY

Compatible with:



Battery:	SKUs:
20.48KW 5.12 x 4	120024
25.6KW 5.12 x 5	120025
30.72KW 5.12 x 6	120026
35.84KW 5.12 x 7	120027
40.96KW 5.12 x 8	120028



Battery Module Qty InSeries(Optional)	4	5	6	7	8
System Nominal Voltage(V)	204.8	256.0	307.2	358.4	409.6
System Nominal Capacity(KWh)	20.48	25.60	30.72	35.84	40.96
Usable Capacity(KWh)	16.38	20.48	24.58	28.67	32.77
Dimension (mm)	590*420*849	590*420*1000	590*420*1151	590*420*1302	590*420*1453
Weight (Kg)	222.4	270.9	319.4	367.9	416.4
Charge/Discharge Current (A)	40				
Communicaiton	CAN				
Altitude	≤2000m				
Cycle Life	25±2°C,0.5C/0.5C,EOL70%≥6000				
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature				
SOC	Intelligent algorithm				
Working Temperature	0~35°C				
Storage Temperature	0~35°C				
Installation Mode	Stackable				
Battery Type	LifePO4(LFP)				
Module Energy(kWh)	5.12				
Module Nominal Voltage(V)	51.2				
Module Capacity(Ah)	100				

1. DC Usable Energy, test conditions: 80% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

System Components

HIGH VOLTAGE BATTERY CLUSTER CONTROL BOX

SKU Code: **12151**

Operating Voltage	120-750Vdc
Nominal Charge/Discharge Current	40A
Max Charge/Discharge Current	50A
Operating Temperature Range	-10~55°C
Dimension (W/D/H)	590*420*165 mm
Weight Approximate	16.1kg



RECHARGEABLE LI-ION BATTERY MODULE

SKU Code: **12002**

Battery Type	LiFePO4(LFP)
Nominal Voltage	51.2Vdc
Rated Capacity	100Ah
Rated Energy	5.12kWh
Nominal Charge/Discharge Current	40A
Peak Discharge Current	50A
Charge Temperature	0~45°C
Discharge Temperature	-10°C~55°C
Storage Temperature	0°C~35°C
Dimension (W/D/H)	590*420*194mm
Weight Approximate	45.6kg



BATTERY MODULE BASE

SKU Code: **12152**

Dimension (W/D/H)	590*420*80mm
Weight Approximate	8.5kg



STANDARD 2-METER COMMUNICATION CABLE
CONNECTED TO THE EXTERNAL DEVICE



STANDARD 2-METER POWER CABLE CONNECTED
TO THE EXTERNAL PCS



Wall Mounting Batteries

10
 YEAR
 WARRANTY

CEI 0-21
 CERTIFICATE

51.2V
 VOLTAGE

5.12kWh

Model No: **VT48100E-W**
 SKU Code: **11526**
 Net Weight: **43kg**
 Size(MM): **443*450*150 mm**

GENERAL DATA

Nominal Capacity	100Ah@0.2C, 25
Nominal Voltage	51.2V
Nominal Energy	5.12kWh@0.2C, 25
Charge Voltage	56.8V
Standard Charge Current	20A@25
Max Continuous Charge Current	100A@25
Standard Discharge Current	20A@25
Max Continuous Discharge Current	100A@25
Discharge Cut-off Voltage	42.0V
Operating Temperature	Charge:0~+60°C -Discharge:-20~+60°C
Allowed Humidity Range	≤95% RH
IP	IP20



Self-designed BMS
International design
certification



LifePO4 cells,
ensuring safety of
the battery



Long cyclic life-6000
cycle (80% DOD)

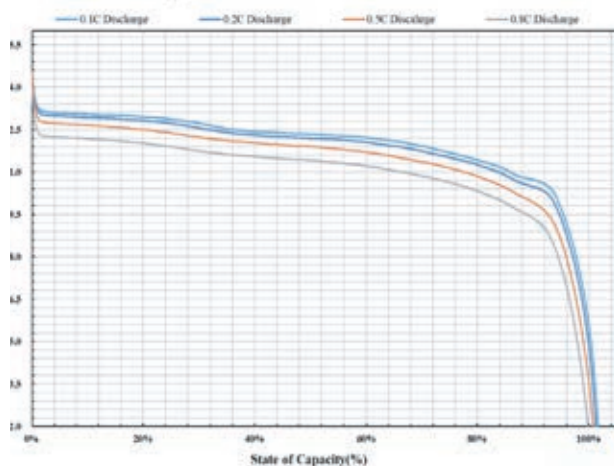


High rate
charge/discharge
current @ 100A

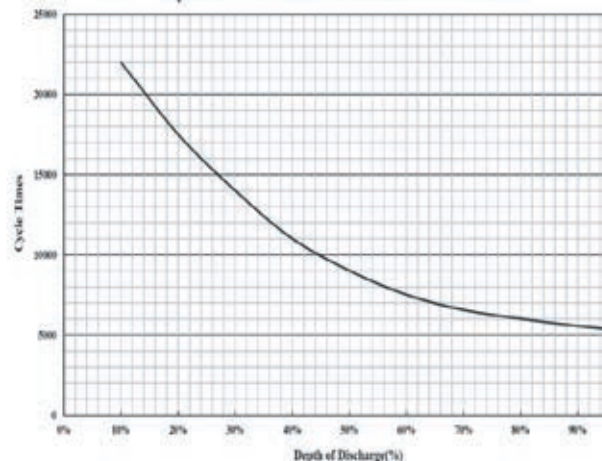


Modular design
Easy expandability

Discharge curve at different current under 25°C



Cycle Times vs. DOD in HESS Scenario at 35°C



Wall Mounting Batteries



51.2V

VOLTAGE

5.12kWh

Model No:	VT-5139
SKU Code:	11448
Net Weight:	50.67kg
Size(MM):	607*720*270



51.2V

VOLTAGE

10.24kWh

Model No:	VT-12040
SKU Code:	11447
Net Weight:	89.91kg
Size(MM):	660*855*360mm

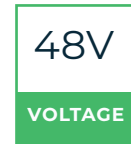
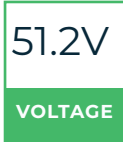
GENERAL DATA

Storage Capacity	5120Wh 51.2V
Standard Capacity	100Ah/51.2V
Continuous Input Current	50A
Continuous Output Current	75A
Standard Charging Voltage	57.6V-60V
Cut Off	36V-48V
Self-discharge (25°C)	<3%/month
Depth Of Discharge	>90%
Operating Temperature Range	-20°C-70°C, Recommended: 10°C-45°C
Cycle Life	>5000 times (<0.5C)
C-rate Discharge	<0.8C

Storage Capacity	10240Wh 51.2V
Standard Capacity	200Ah/51.2V
Continuous Input Current	100A
Continuous Output Current	120A
Standard Charging Voltage	57.6V-60V
Cut Off	36V-48V
Self-discharge (25°C)	<3%/month
Depth Of Discharge	>90%
Operating Temperature Range	-20°C-70°C, Recommended :10°C-45°C
Cycle Life	>5000 times (<0.5C)
C-rate Discharge	<0.8C



Rack Mounting Lithium Battery



5.12kWh

9.60kWh

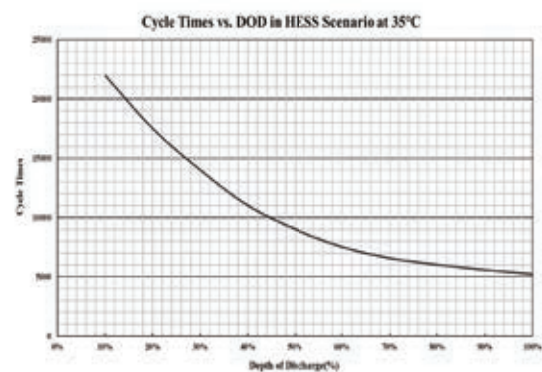
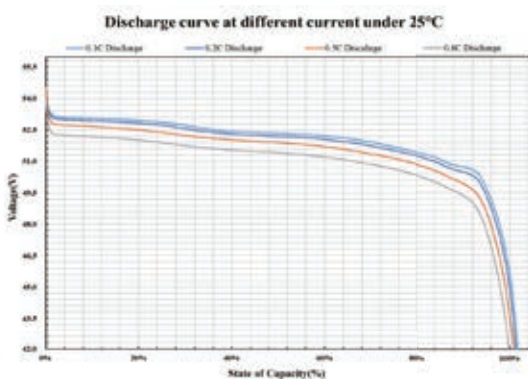
Model No: VT48100E-P2
 SKU Code: 11377
 Net Weight: 41kg
 Size(MM): 445*400*130 mm

Model No: VT-48200B
 SKU Code: 11523
 Net Weight: 81kg
 Size(MM): 445*244*500mm

GENERAL DATA

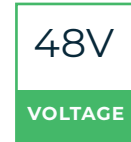
Nominal Capacity	100Ah@0.2C, 25°C
Nominal Voltage	51.2V
Nominal Energy	5.12kWh@0.2C, 25°C
Charge Voltage	56.8V
Standard Charge Current	20A@25°C
Max Continuous Charge Current	100A@25 °C
Standard Discharge Current	20A@25°C
Max Continuous Discharge Current	100A@25 °C
Discharge Cut-off Voltage	42.0V
Operating Temperature	Charge:0~+60°C -Discharge:-20~+60°C
Allowed Humidity Range	≤95% RH
IP	IP20

Nominal Capacity	200Ah@0.2C, 25°C
Nominal Voltage	48.0V
Nominal Energy	9.60kWh@0.2C, 25°C
Charge Voltage	54.0V
Standard Charge Current	20A@25°C
Max Continuous Charge Current	100A@25°C
Standard Discharge Current	20A@25°C
Max Continuous Discharge Current	100A@25°C
Discharge Cut-off Voltage	40.5V
Operating Temperature	Charge:0~+60°C -Discharge:-20~+60°C
Allowed Humidity Range	≤95% RH
IP	IP 20



LiFePO4
 CATHODE MATERIAL

Wall Mounting Batteries

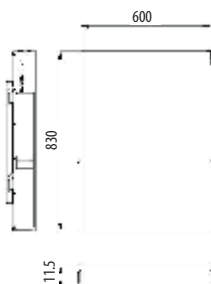


7.64kWh

Model No:	VT-48160
SKU Code:	11548
Net Weight:	80kg
Size(MM):	830*600*111.5

GENERAL DATA

Rated Capacity	Typical 161Ah - Minimum 158Ah
Rated Voltage	48V
Factory SOC	30~60%
Voltage at end of Discharge	42V
Charging mode (CC-CV)	MAX 54.75V
Internal Impedance	≤40mΩ
Standard Charge Current	32A
Limiting Current	20A
Standard Discharge	32A
Maximum Charge Current	100A
Maximum Discharge Current	100A
Operation Temperature Range	Charge: 0~55°C Discharge: -20~60°C
Storage Temperature Range	<12 months : -10~35°C <3 months: -10~45°C <7 day : -20~65°C
Volumetric specific energy	140.2WH/L
Gravimetric specific energy	96WH/KG
Communication mode	RS485/CAN
Battery software version	V1.0
Maximum series number	Forbid
Maximum number of parallels	15PCS



**SUPER
SLIM
DESIGN**

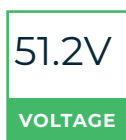


Wall Mounting Batteries



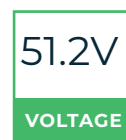
5.12kWh

Model No: **VE51100W**
 SKU Code: **11524**
 Net Weight: **54.0kg**
 Size(MM): **410W * 666 H* 179.5 D**



14.33kWh

Model No: **VE51280W**
 SKU Code: **11525**
 Net Weight: **128.5kg**
 Size(MM): **500W * 800H* 250D**



GENERAL DATA

Nominal Voltage (Vdc)	51.2
Voltage Range (Vdc)	43.2-57.6
Nominal Capacity (kWh)	5.12
Usable Capacity (Wh)	4.86
Rated Charge Voltage/@25 °C (Vdc)	56.4
Charge Current/Max. Continuous (A)	100
Discharge Cut-off Voltage/@25 °C (Vdc)	43.2
Discharge Current/Max. Continuous (A)	100
Communication	CAN/RS-485
Parallel	4
Working Temperature/Charge (°C)	0~55
Working Temperature/Discharge (°C)	- 20~60
Shelf Temperature (°C)	- 20~60
Protection Class	IP65
Cooling Mode	Natural
Installation Method	Wall-mounted/Floor-Mounted
Humidity	5% ~ 95%(RH) No Condensation
Altitude(m)	<2000
Design Life	15+ Years (25 °C/°F)
Cycle Life	> 6000, 80%DOD@25 °C
Design Standard	UI1642, IEC62619, EN61000, UN38.3

Nominal Voltage (Vdc)	51.2
Voltage Range (Vdc)	43.2-57.6
Nominal Capacity (kWh)	14.33
Usable Capacity (Wh)	13.61
Rated Charge Voltage/@25 °C (Vdc)	56.4
Charge Current/Max. Continuous (A)	200
Discharge Cut-off Voltage/@25 °C (Vdc)	43.2
Discharge Current/Max. Continuous (A)	200
Communication	CAN/RS-485
Parallel	4
Working Temperature/Charge (°C)	0~55
Working Temperature/Discharge (°C)	- 20~60
Shelf Temperature (°C)	- 20~60
Protection Class	IP65
Cooling Mode	Natural
Installation Method	Wall-mounted/Floor-Mounted
Humidity	5% ~ 95%(RH) No Condensation
Altitude(m)	<2000
Design Life	15+ Years (25 °C/°F)
Cycle Life	> 6000, 80%DOD@25 °C
Design Standard	UI1642, IEC62619, EN61000, UN38.3

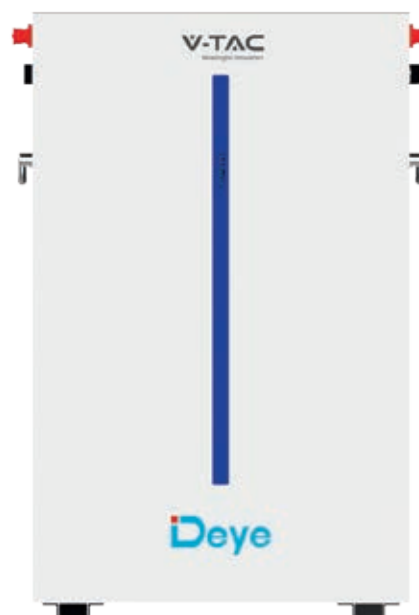


Wall Mounting Batteries



SKU Code: **11539**
Net Weight: **58kg**
Size(MM): **475W*720H*145D**

6.14kWh



GENERAL DATA

Battery Chemistry	LiFePO4						
Capacity (Ah)	120						
Scalability	Max.32 pcs in Parallel(196kWh)						
Nominal Voltage (V)	51.2						
Operating Voltage(V)	43.2~57.6						
Energy (kWh)	6.14						
Usable Energy (kWh) [1]	5.53						
Charge/Discharge Current (A)	<table> <tr> <td>Recommend [2]</td><td>60</td></tr> <tr> <td>Max. [2]</td><td>100</td></tr> <tr> <td>Peak(2mins,25°C)</td><td>150</td></tr> </table>	Recommend [2]	60	Max. [2]	100	Peak(2mins,25°C)	150
Recommend [2]	60						
Max. [2]	100						
Peak(2mins,25°C)	150						



Recommend Depth of Discharge	90%
Master LED Indicator	5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting)
IP Rating of Enclosure	IP65
Operating Temperature	Charge:0~55°C / Discharge:-20°C~55°C
Storage Temperature	0°C~35°C
Humidity	5%~95%
Altitude	≤2000m
Cycle Life	≥6000(25°C±2°C,0.5C/0.5C,70%EOL)
Installation	Wall-Mounted, Floor-Mounted
Communication Port	CAN2.0, RS485
Energy Throughput [3]	20MWh@70%EOL
Certification	UN38.3, IEC62619, CE, CEI 0-21

ACCESSORIES INCLUDED



Hboard



Base



Hboard



PCable

VESS MINI 30kW-60kW



GENERAL SPECIFICATION

On-grid Off-grid Switching Time	30ms
Relative Humidity	5% ~ 95%RH
Cooling Mode	Natural cooling
IP Rating	IP20
Altitude	2000m without derating
Display	Indicator light, web interface
Communication	CAN / RS485 / TCP / 4G
Certificates	IEC62109 - 1, UL1741
Isolation Transformer (optional)	(400/ 400Vac or 480/480Vac) 100kVA
UPS (optional)	1kVA (backup for EMS, BMS, Display, etc.)
Fire Fighting System (optional)	N1230 / Heptafluoropropane
Generator Compability (optional)	DI access (same port for generator or grid)

30K

SKU Code:	11813
Size (W*H*D):	1200*2000*700mm

60K

SKU Code:	11814
Size (W*H*D):	1800*2000*700mm

AC PARAMETERS

Normal Power	30kW	60kW
AC Voltage (on-grid)	400V (+ 15%) / 480V (+ 15%)	400V (+ 15%) / 480V (+ 15%)
AC Voltage (off-grid)	400V (+ 20%) / 480V (+ 5%)	400V (+ 20%) / 480V (+ 5%)
AC Frequency	50Hz/60Hz (+2.5Hz)	50Hz/60Hz (+2.5Hz)
THDi	<3%	<3%
Grid Type	3-Phase+PE	3-Phase+PE

PV PARAMETERS

PV Input Power	45kW/Max.135kW(optional)	90kW/Max.135kW(optional)
MPPT Voltage Range	200Vdc-810Vdc	200Vdc-810Vdc
Number of MPPT	3	6
Number of Strings for Each MPPT	2	2

BATTERY PARAMETERS

Nominal Energy	51.2kWh	102.4kWh
Number of Battery Modules	10	20
Number of Battery Cabinet	1	2
VE51 100I Battery Module Electrical Spec	51.2V/100AH/5.12kWh	
VE51 100I Battery Module Physical Spec	482*155*560mm (W*H*D) /48kg	
Nominal Voltage	512Vdc	
Nominal Voltage Range	448Vdc ~ 576Vdc	
Operating Temperature Range	Discharge - 200 C ~ 550C / Charge - 00 C ~ 500C	
Battery Certification	UN38.3, IEC62619, CE-EMC / UL 1642 for cell	

NEW High Voltage All In One ESS 50kW/60kWh

 SKU Code: 11900

10
 YEAR
 WARRANTY


Rated power operation the maximum temperature of the battery is less than 40°C



BMS integrated technology, power supply redundancy design, support black start function, Off grid operation, etc



Suitable for high rate cyclic charging and discharging scenarios



Combustible gas, smoke and temperature detection, system active exhaust, and fire alarm



Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution



Supports battery expansion, with a maximum capacity of 360KWh

Cell Chemistry	LiFePO4	
Module Energy(kWh)	5.12	
Module Nominal Voltage (V)	51.2	
Module Capacity (Ah)	100	
Battery Module Qty in series.	12 (Standard EU Cluster)	
System Nominal Voltage (V)	614.4	
System Operating Voltage (V)	499.2~700	
System Energy (kWh)	61.44	
System Usable Energy (kWh) 1	55.29	
Rated DC Power	61.44	
Charge/Discharge Current (A)	Recommend	50
	Nominal	100
	Peak Discharge 2 mins, 25°C	125
	Charge: 0~55/Discharge: -20~55	
Working Temperature(°C)	Yellow: Battery High Voltage Power On Red: Battery System Alarm	
Status Indicator	CAN2.O/RS485	
Communication Port	5~85%RH	
Humidity	≤2000m	
Altitude	IP65 (After Stacking)	IP20 (Without stacking)
IP Rating of Enclosure	589x590x2240	
Dimension (W/D/H,mm)	628	
Weight Approximate (kg)	Rack Mounting	
Installation Location	0~35	
Storage Temperature(°C)	90%	
Recommend Depth of Discharge	25±2°C, 0.5C/0.5C, EOL70%≥6000	
Cycle Life	10years	
Warranty	CE/IEC62619/UL1973/UL9540A/UN38.3	
Certification		



5.12kWh LiFePO4 BATTERY

SKU Code: 11862



High Voltage Battery Cluster Control Box

SKU Code: 11863

Operating Voltage	120~750Vdc
Nominal Charge/Discharge Current	100A
Max .Charge/Discharge Current	125A
DC Input Rating	12±2%V/4.15A
Operating Temperature Range	-20~65°C
Ingress Protection	IP20
Dimension (W/D/H)	440x570x150mm
Weight Approximate	15.5k



19” rack, can install 12 pcs batteries and 1 pc High Voltage Battery cluster control box

SKU Code: 11867



5M power cable connected to the POSITIVE pole of the external PCS(1000V/4AWG cable)

SKU Code: 11864



5M power cable connected to the NEGATIVE pole of the external PCS (1000V/4AWG cable)

SKU Code: 11865



5M commumication cable connected to the external device

SKU Code: 11866

LITHIUM / LEAD ACID BATTERY

V-TAC
Meaningful Innovation.



Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.
Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more



NEW **Lithium Iron Phosphate Batteries**

 Model No: **VT-12.8V 10AH-L**
 SKU Code: **11940**

 Model No: **VT-12.8V 2.3AH-L**
 SKU Code: **11941**
ELECTRICAL DATA

Nominal Voltage
Nominal Capacity
Energy
Resistance
Self Discharge
Cells Square Cell

12.8 V
10 Ah
128 Wh
≤30 mΩ @ 50% SOC
<3% / Month
Cells Square Cell 3.2V10Ah

12.8 V
2.3 Ah
29.44 Wh
≤30 mΩ @ 50% SOC
<3% / Month
Square Cell 3.2V2.3Ah

MECHANICAL DATA

Dimension (L x W x H)
Approx. Weight
Terminal Type
Terminal Torque
Case Material
Enclosure Protection

L151*W98*H97mm
1.43KG
T2
/
ABS
IP55

L178*W35*H60mm
380g±5g
T2
/
ABS
IP55

DISCHARGE PERFORMANCE

Continuous Discharge Current
Maximum continuous Discharge Current
Peak Discharge Cut-Off Current
Recommended Low Voltage Disconnect
Discharge Cut-Off Voltage
Reconnect Voltage
Short Circuit Protection

5 A
10 A
50±10A
10 V
10 V
11.2 V
500±300(microsecond)

1.15 A
2.3 A
50±10A
10 V
10 V
11.2 V
500±300(microsecond)

CHARGE PERFORMANCE

Recommended Charge Current
Maximum Charge Current
Recommended Charge Voltage
Charge Cut-Off Voltage
Reconnect Voltage
Balancing Voltage
Maximum Batteries in Series
Maximum Batteries in Parallel

2 A
5 A
14.6 V
<15.2 V (0.5 ~ 1.5 s)
>14.4 V
<14 V
1
1

0.46 A
1.15 A
14.6 V
<15.2 V (0.5 ~ 1.5 s)
>14.4 V
<14 V
1
1

TEMPERATURE PERFORMANCE

Discharge Temperature
Charge Temperature
Storage Temperature
High Temperature Cut-Off
Reconnect Temperature

-4 ~ 140 °F (-20 ~ 60 °C)
32 ~ 113 °F (0 ~ 45 °C)
23 ~ 95 °F (-5 ~ 35 °C)
149 °F (65 °C)
118 °F (48 °C)

NEW Lithium Iron Phosphate Batteries

02
 YEAR
 WARRANTY

 Model No: **VT-12.8V 7.2AH-L**
 SKU Code: **11942**

 Model No: **VT-6.4V 5AH-L**
 SKU Code: **11943**

ELECTRICAL DATA

Nominal Voltage
Nominal Capacity
Energy
Resistance
Self Discharge
Cells Square Cell

12.8 V
7.2 Ah
92.16 Wh
≤30 mΩ @ 50% SOC
<3% / Month
Square Cell 3.2V7.2Ah

6.4 V
5 Ah
32 Wh
≤30 mΩ @ 50% SOC
<3% / Month
Square Cell 3.2V5Ah

MECHANICAL DATA

Dimension (L x W x H)
Approx. Weight
Terminal Type
Terminal Torque
Case Material
Enclosure Protection

L150*W63*H93mm
850g±3g
T2
/
ABS
IP55

L70*W47*H99mm
380g±5g
T2
/
ABS
IP55

DISCHARGE PERFORMANCE

Continuous Discharge Current
Maximum continuous Discharge Current
Peak Discharge Cut-Off Current
Recommended Low Voltage Disconnect
Discharge Cut-Off Voltage
Reconnect Voltage
Short Circuit Protection

3.6 A
7.2 A
50±10A
10 V
10 V
11.2 V
500±300(microsecond)

2.5 A
5 A
50±10A
5 V
5 V
5.6 V
500±300(microsecond)

CHARGE PERFORMANCE

Recommended Charge Current
Maximum Charge Current
Recommended Charge Voltage
Charge Cut-Off Voltage
Reconnect Voltage
Balancing Voltage
Maximum Batteries in Series
Maximum Batteries in Parallel

1.44 A
3.6A
14.6 V
<15.2 V (0.5 ~ 1.5 s)
>14.4 V
<14 V
1
1

1 A
2.5 A
7.3 V
<7.6 V (0.5 ~ 1.5 s)
>7.2 V
<7 V
1
1

TEMPERATURE PERFORMANCE

Discharge Temperature
Charge Temperature
Storage Temperature
High Temperature Cut-Off
Reconnect Temperature

-4 ~ 140 °F (-20 ~ 60 °C)
32 ~ 113 °F (0 ~ 45 °C)
23 ~ 95 °F (-5 ~ 35 °C)
149 °F (65 °C)
118 °F (48 °C)

NEW Lead Acid Batteries

6V/4Ah (20hr)

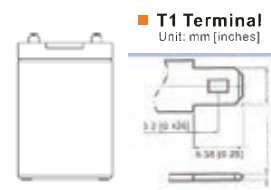
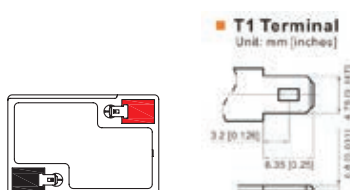
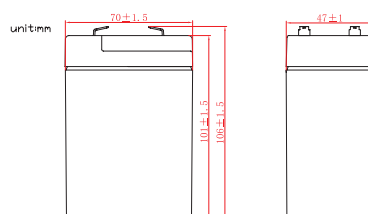
 SKU Code: **23448**

Nominal Voltage	6V
Nominal Capacity	4 Ah
Terminal	T1
Approx. Weight	Approx 0.67 kg (1.47 lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (0.2A to 10.8V) 4.00Ah
	10Hour Rate (0.367A to 10.8V) 3.67Ah
	3Hour Rate (1.1A to 10.5V) 3.30Ah
Internal resistance	Full charged at 25°C: 25 Ohm
Max. Discharge Current	67.5A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F)
	Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 1.2A
	Cycle use: 7.2-7.5V(-30mV/ °C)
	Float use : 6.75-6.9V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	70(L)x47(W)x101(H)x106(TH)


12V/7Ah (20hr)

 SKU Code: **23451**

Nominal Voltage	12V
Nominal Capacity	4 Ah
Terminal	T1
Approx. Weight	Approx 2.4kg (4.49lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (0.350A to 10.8V) 7.00Ah
	10Hour Rate (0.653A to 10.8V) 6.53Ah
	3Hour Rate (1.710A to 10.5V) 5.13Ah
Internal resistance	Full charged at 25°C: 28 Ohm
Max. Discharge Current	105A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F)
	Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 2.1A
	Cycle use: 14.4-15.0V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	151(L)x65(W)x94(H)x100(TH)



NEW Lead Acid Batteries



12V/1.3Ah (20hr)

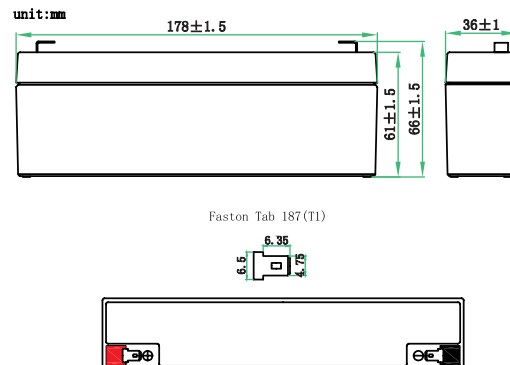
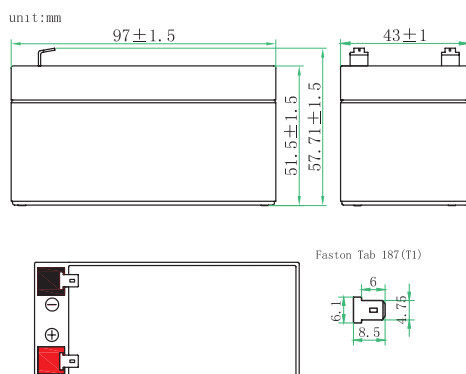
SKU Code: 23449

Nominal Voltage	12V
Nominal Capacity	1.3Ah
Terminal	T1
Approx. Weight	Approx 0.54 kg (1.19 lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (0.065A to 10.8V) 1.3Ah
	10Hour Rate (0.1A to 10.8V) 1.0Ah
	3Hour Rate (0.166A to 10.5V) 0.5Ah
Internal resistance	Full charged at 25°C: 16 Ohm
Max. Discharge Current	18A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F)
	Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 0.39A
	Cycle use: 14.4-15.0V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	97(L)x43(W)x51.5(H)x57.5(TH)

12V/2Ah (20hr)

SKU Code: 23450

Nominal Voltage	12V
Nominal Capacity	2Ah
Terminal	T1
Approx. Weight	Approx 0.81kg (1.78lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (0.1A to 10.8V) 2Ah
	10Hour Rate (0.15A to 10.8V) 1.5Ah
	3Hour Rate (0.26A to 10.5V) 0.8Ah
Internal resistance	Full charged at 25°C: 16 Ohm
Max. Discharge Current	28.5A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F)
	Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 0.6A
	Cycle use: 14.4-15.00V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	178(L)x36(W)x61(H)x66(TH)



NEW Lead Acid Batteries



12V/10Ah (20hr)

SKU Code: **23452**

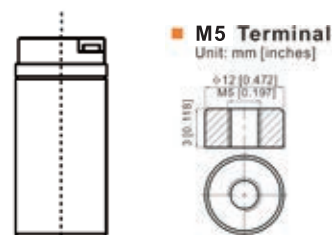
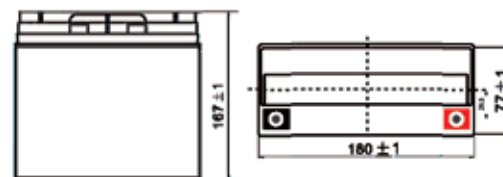
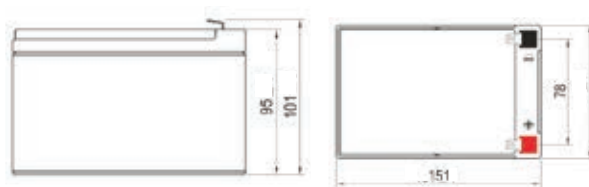
Nominal Voltage	12V
Nominal Capacity	10Ah
Terminal	T2
Approx. Weight	Approx 3.10 kg (6.83lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (.50A to 10.8V) 10Ah
	10Hour Rate (0.93A to 10.8V) 9.3Ah
	3Hour Rate (2.55A to 10.5V) 7.65Ah
Internal resistance	Full charged at 25°C: 16 Ohm
Max. Discharge Current	150A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F)
	Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 3A
	Cycle use: 14.4-15.0V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	151(L)x98(W)x95(H)x101(TH)



12V/18Ah (20hr)

SKU Code: **23453**

Nominal Voltage	12V
Nominal Capacity	18Ah
Terminal	M5
Approx. Weight	Approx 5.10kg (11.35lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (0.90A to 10.8V) 18Ah
	10Hour Rate (1.67A to 10.8V) 16.7Ah
	3Hour Rate (4.46A to 10.5V) 13.4Ah
Internal resistance	Full charged at 25°C: 16 Ohm
Max. Discharge Current	270A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F)
	Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 5.4A
	Cycle use: 14.4-15.0V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	180(L)x77(W)x167(H)x167(TH)



NEW Lead Acid Batteries

01
YEAR
WARRANTY



12V/26Ah (20hr)

SKU Code: **23454**

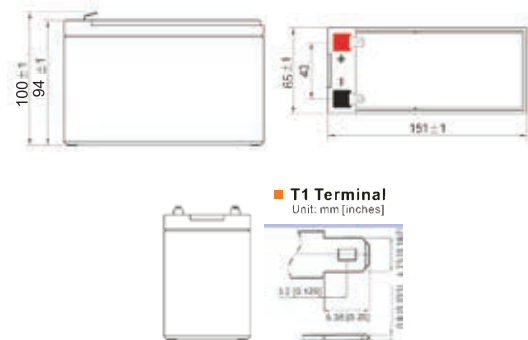
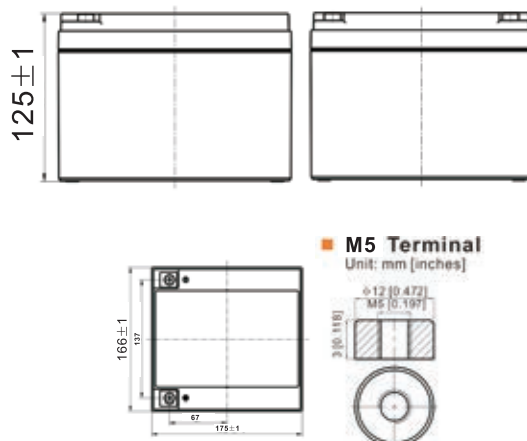
Nominal Voltage	12V
Nominal Capacity	26Ah
Terminal	M5
Approx. Weight	Approx 7.8 kg (17.19 lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (1.30A to 10.8V) 26Ah
	10Hour Rate (2.42A to 10.8V) 24.2Ah
	3Hour Rate (6.63A to 10.5V) 19.9Ah
Internal resistance	Full charged at 25°C: 14 Ohm
Max. Discharge Current	390(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F) Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 7.8A
	Cycle use: 14.4-15V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	166(L)x175(W)x125(H)x125(TH)



12V/7Ah (20hr)

SKU Code: **23467**

Nominal Voltage	12V
Nominal Capacity	4 Ah
Terminal	T2
Approx. Weight	Approx 2.4kg (4.49lbs)
Container Material	ABS
Rated Capacity	20Hour Rate (0.350A to 10.8V) 7.00Ah
	10Hour Rate (0.653A to 10.8V) 6.53Ah
	3Hour Rate (1.710A to 10.5V) 5.13Ah
Internal resistance	Full charged at 25°C: 28 Ohm
Max. Discharge Current	105A(5S)
Operating Temperature	Discharge: -15 -50°C(5- 122°F)
	Charge: 0-40°C (32-104°F) Storage: -15-40°C(5-104°F)
Charge Voltage(25°C)	Max. charge Current: 2.1A
	Cycle use: 14.4-15.0V(-30mV/ °C)
	Float use : 13.5-13.8V(-20mV/ °C)
Self discharge	3% of capacity declined per month at 20°C
Dimension(mm)	151(L)x65(W)x94(H)x100(TH)



SOLAR PANELS

V-TAC
Meaningful Innovation.



HALF-CUT TECHNOLOGY

Unique circuit design to reduce temperature heat spots



SIGNIFICANTLY AVOIDING HEAT SPOT

The unique circuit design helps reduce the temperature heat spot of cells significantly to reduce the power loss and increase energy output of modules



LOWER COST

Increasing power generation can reduce the cost per kilowatt-hour

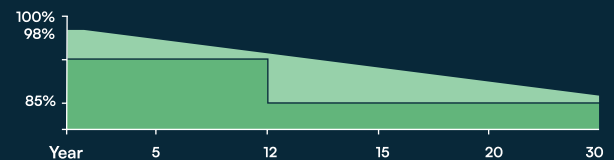


EXCELLENT PERFORMANCE OF PID RESISTANCE

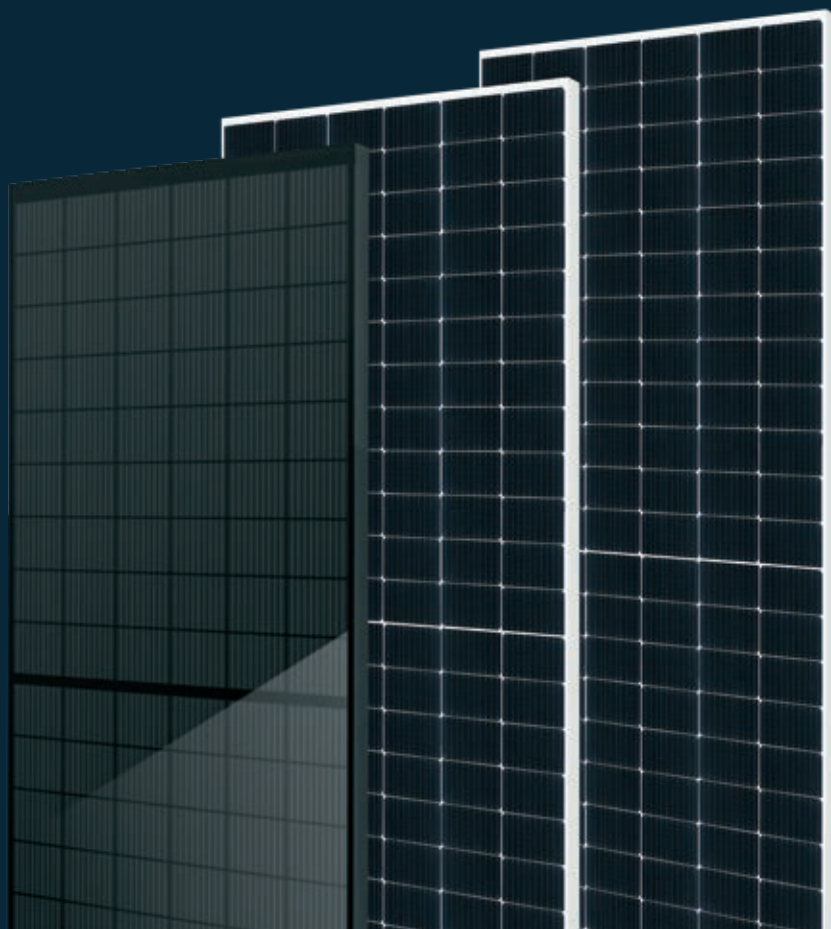
The performance of PID resistance (Potential Induced Degradation) passes all TUV NORD current testing criteria

12 YEAR
WARRANTY
PRODUCT MATERIAL

25 YEAR
WARRANTY
LINEAR POWER OUTPUT



- Maximum Cell Efficiency
- Maximum Positive Power Tolerance gives highest output per m2 of roof
- Aesthetically pleasing All Black Panel / Frame available
- Highest Heat Tolerance



NEW
Tier 1
400W
Mono Solar Panel
Full Black

1
**METRE
CABLE**

SKU Code:

11897

EAN Code:

3800170218406

40HQ container:

72 Pallets/936pcs

ELECTRICAL DATA (STC)

Max power (Pmax)	400
Max power voltage (Vmp)	30.83
Max power current (Imp)	12.98
Open circuit voltage (Voc)	36.93
Short circuit current (Isc)	13.76
Module Efficiency (%)	20.46
Max system voltage	DC 1500V(TÜV,UL) / 1000V(CUL)
Maximum Series Fuse Rating	25A

ELECTRICAL DATA (NOCT)

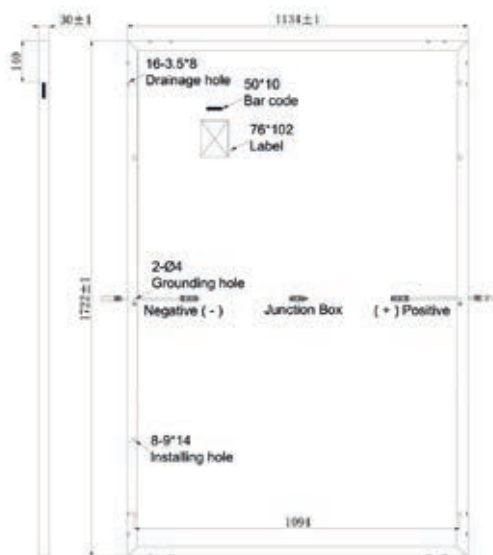
Max power (Pmax)	298
Max power voltage (Vmp)	28.40
Max power current (Imp)	10.46
Open circuit voltage (Voc)	34.50
Short circuit current (Isc)	11.09

MECHANICAL CHARACTERISTICS

Dimensions	1722x1134x30mm
Weight	21.5 kg
Glass	3.2mm ultra clear embossed tempered coated glass
Output cables	4mm ² , symmetrical lengths 1100mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline PERC,182x91mm
Number of cells	108 cells (Half-Cell)

TEMPERATURE CHARACTERISTICS

Temp.Coe .of Isc (TK Isc)	0.048%/°C
Temp.Coe .of Voc (TK Voc)	-0.27%/°C
Temp.Coe .of Pmax (TK Pmax)	-0.34%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	44±2°C



Side

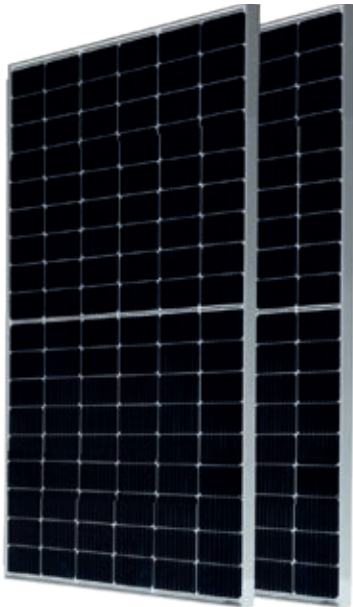
Back

TESTS, CERTIFICATIONS AND WARRANTIES

Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TÜV, CE, UL, CEC, INMETRO, WEEE
Extreme wind and snow loads testing	Withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
Power tolerance	0~+3%
Junction box	IP68
Warranties	12 years product warranty and 25 years 84.8% of power

410W

Mono Half Solar Panel



Model No:	AU410-27V-MH
SKU Code:	11910
EAN Code:	3800170219960
Qty Per Pallet:	31
Net Weight :	21.50kg
Product Size	1722*1134*35mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	410.00
Maximum Power Voltage (Vmp)	31.46
Maximum Power Current (Imp)	13.04
Open Circuit Voltage (Voc)	37.45±3%
Short Circuit Current (Isc)	13.85±3%
Module Efficiency (%)	20.97

ELECTRICAL DATA (NOCT)

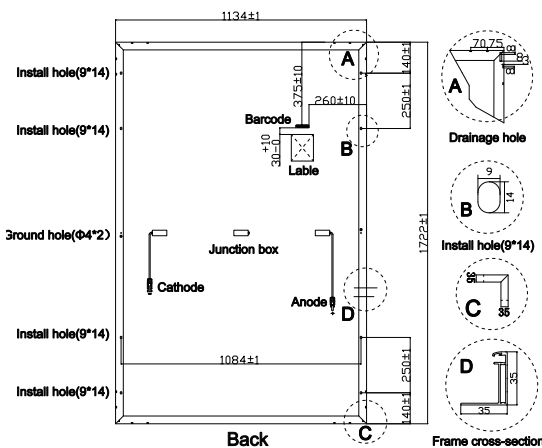
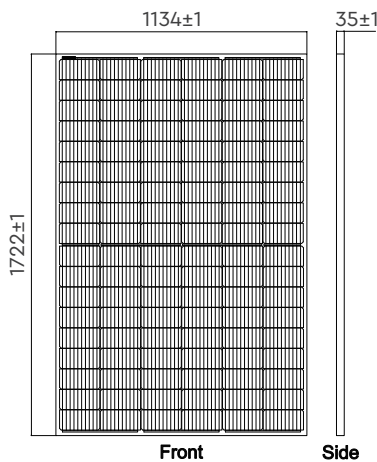
Peak Power (Pmax)	304.8
Maximum Power Voltage (Vmp)	29.20
Maximum Power Current (Imp)	10.44
Open Circuit Voltage (Voc)	35.05±3%
Short Circuit Current (Isc)	11.16±3%

MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	108(12*9)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 100cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C



410W

Mono Half Solar Panel Full Black


1
**METRE
CABLE**

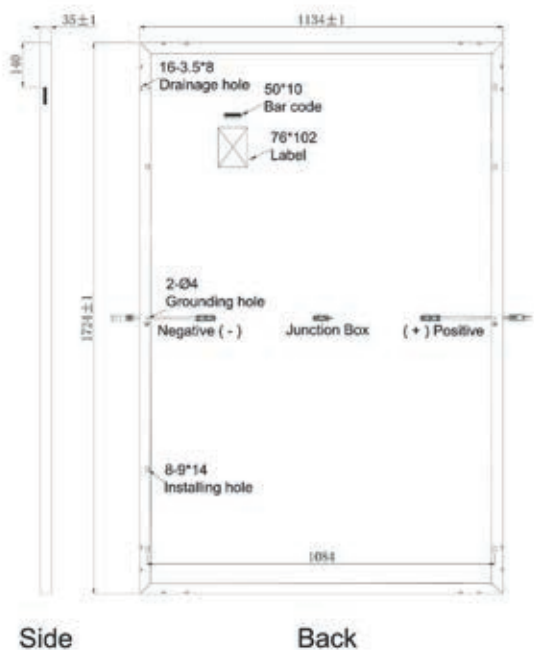
Model No:	VT-SP410-108M10
SKU Code:	11912
EAN Code:	3800170220058
Qty Per Pallet:	31
Net Weight :	21.50kg
Product Size	1724*1134*35mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	410
Maximum Power Voltage (Vmp)	31.25
Maximum Power Current (Imp)	13.12
Open Circuit Voltage (Voc)	37.33
Short Circuit Current (Isc)	13.90
Module Efficiency (%)	20.97

ELECTRICAL DATA (NMOT)

Peak Power (Pmax)	305
Maximum Power Voltage (Vmp)	28.80
Maximum Power Current (Imp)	10.58
Open Circuit Voltage (Voc)	34.80
Short Circuit Current (Isc)	11.20



MECHANICAL CHARACTERISTICS

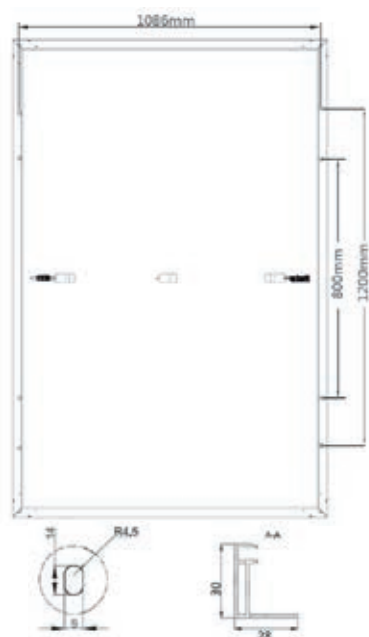
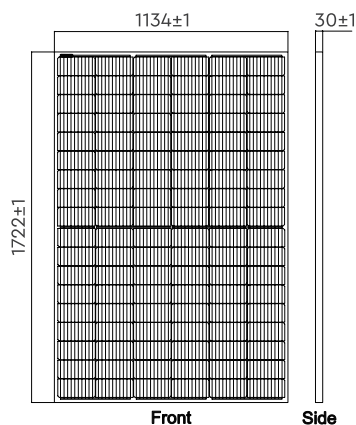
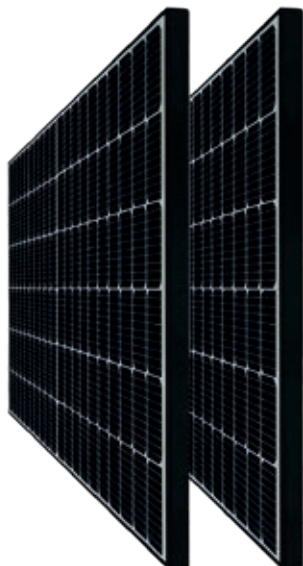
Cell Type	Mono-Crystalline PERC,182x91mm
No. of Cells	108 cells (Half-Cell)
Front Glass	3.2mm ultra clear embossed tempered coated glass
Frame	Anodized Aluminium Alloy
Junction box	IP 68
Output cables	4mm ² , symmetrical lengths 1100mm
MaxWind Load/Snow Load	2400Pa/5400Pa

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	DC 1500V(TÜV,UL) / 1000V(CUL)
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.34 %/°C
Voc Temperature Coefficient (V/°C)	-0.27 %/°C
Isc Temperature Coefficient (A/°C)	+0.048 %/°C
NOCT Nominal Operating Cell Temperature (°C)	44±2°C
Operating and Storage Temperature (°C)	-40~+85°C

430W

Mono Half Solar Panel Black Frame TOPCon Technology



Model No:	VT-SP430-N108M10
SKU Code:	11898
EAN Code:	3800170218468
Qty Per Pallet:	36
Net Weight :	21.50kg
Product Size	1722*1134*30mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	430
Maximum Power Voltage (Vmp)	31.79
Maximum Power Current (Imp)	13.53
Open Circuit Voltage (Voc)	38.34
Short Circuit Current (Isc)	14.25
Module Efficiency (%)	22.02

ELECTRICAL DATA (NMOT)

Peak Power (Pmax)	324
Maximum Power Voltage (Vmp)	29.9
Maximum Power Current (Imp)	10.84
Open Circuit Voltage (Voc)	36.1
Short Circuit Current (Isc)	11.48

MECHANICAL CHARACTERISTICS

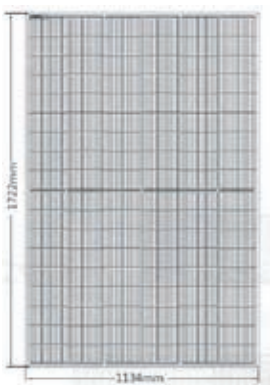
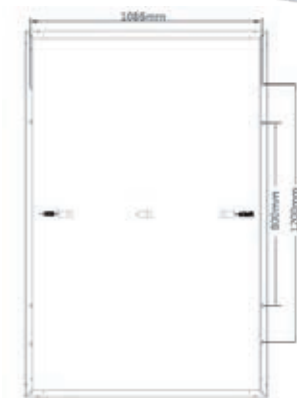
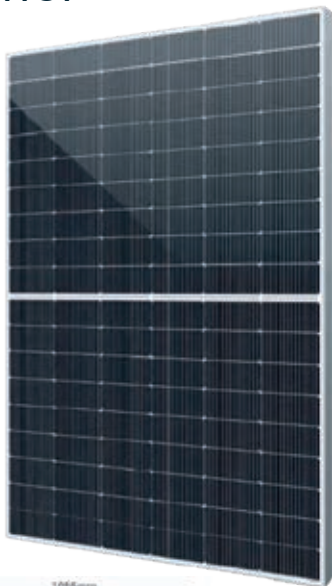
Cell Type	N type Mono-Crystalline , 182x91mm
No. of Cells	108cells (Half-Cell)
Front Glass	3.2mm ultra clear embossed tempered coated glass
Frame	Anodized Aluminium Alloy
Junction box	IP 68
Output cables	4mm ² , symmetrical lengths 1100mm
MaxWind Load/Snow Load	2400Pa/5400Pa

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	DC 1500V (TÜV)
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.30 %/°C
Voc Temperature Coefficient (V/°C)	-0.25 %/°C
Isc Temperature Coefficient (A/°C)	+0.046 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

NEW
Tier 1
430W

TOPCON Mono Solar Panel



SKU Code:	11933
EAN Code:	3800170220676
40ft Container:	62 Pallets/806pcs

ELECTRICAL DATA (STC)

Max power (Pmax)	430
Max power voltage (Vmp)	31.79
Max power current (Imp)	13.53
Open circuit voltage (Voc)	38.34
Short circuit current (Isc)	14.25
Module Efficiency (%)	22.02
Max system voltage	DC 1500V(TÜV)
Maximum Series Fuse Rating	25A

ELECTRICAL DATA (NOCT)

Max power(Pmax)	324
Max power voltage(Vmp)	29.9
Max power current(Imp)	10.84
Open circuit voltage(Voc)	36.1
Short circuit current(Isc)	11.48

MECHANICAL CHARACTERISTICS

Dimensions	1722x1134x35mm
Weight	21.5kg
Glass	3.2mm ultra clear embossed tempered coated glass
Output cables	4mm ² , symmetrical lengths 1100mm
Connectors	MC4 compatible IP68
Cell type	N type Mono-Crystalline , 182x91mm
Number of cells	108cells (Half-Cell)

TEMPERATURE CHARACTERISTICS

Temp.Coe .of Isc (TK Isc)	0.046%/°C
Temp.Coe .of Voc (TK Voc)	-0.25%/°C
Temp.Coe .of Pmax (TK Pmax)	-0.30%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	45±2°C

TESTS, CERTIFICATIONS AND WARRANTIES

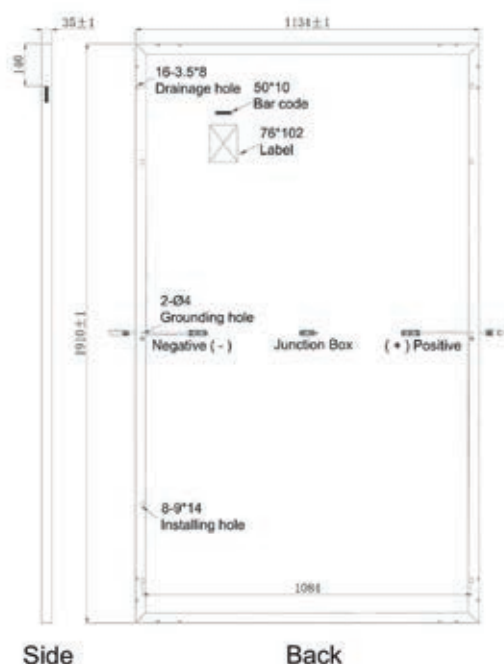
Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TÜV, CE, CEC, WEEE
Extreme wind and snow loads testing	Withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
Power tolerance	0~+3%
Junction box	IP68
Warranties	15 years product warranty and 30 years 87.4% of power

SKU Code:	11945
EAN Code:	3800170220942
40ft Container:	62 Pallets/744pcs



Max power (Pmax)	450
Max power voltage (Vmp)	34.81
Max power current (Imp)	12.93
Open circuit voltage (Voc)	41.50
Short circuit current (Isc)	13.70
Module Efficiency (%)	20.78
Max system voltage	DC 1500V(TÜV) / 1000(CUL)
Maximum Series Fuse Rating	25A

Max power (Pmax)	335
Max power voltage (Vmp)	32.10
Max power current (Imp)	10.44
Open circuit voltage (Voc)	38.70
Short circuit current (Isc)	11.04



Dimensions	1910x1134x35mm
Weight	23.5 kg
Glass	3.2mm ultra clear embossed tempered coated glass
Output cables	4mm ² , symmetrical lengths 1100mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline PERC,182x91mm
Number of cells	120cells (Half-Cell)

Temp.Coe .of Isc (TK Isc)	0.048%/°C
Temp.Coe .of Voc (TK Voc)	-0.27%/°C
Temp.Coe .of Pmax (TK Pmax)	-0.34%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	44±2°C

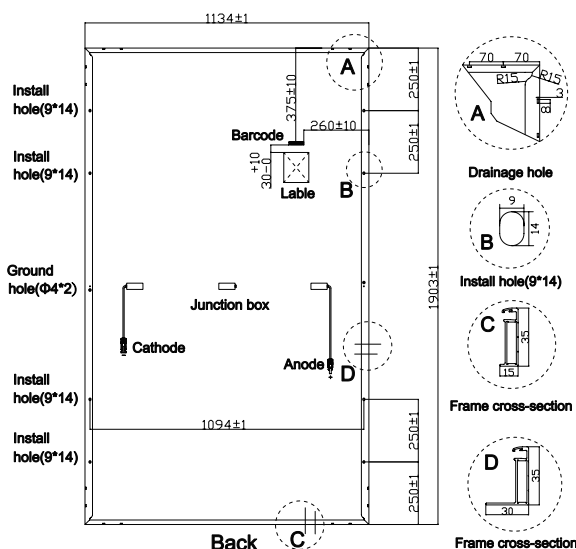
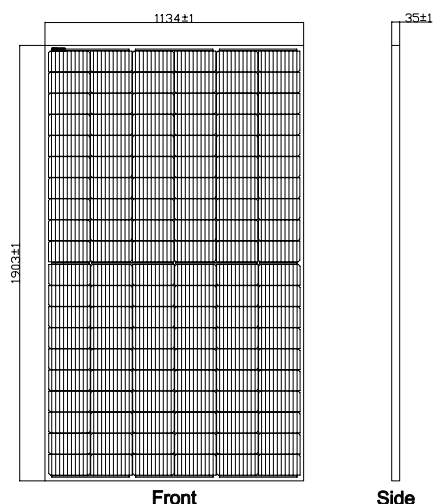
Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TÜV, CE, UL, CEC, INMETRO, WEEE
Extreme wind and snow loads testing	Withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
Power tolerance	0~+3%
Junction box	IP 68
Warranties	12 years product warranty and 25 years 84.8% of power

450W

Mono Half Solar Panel Full Black



Unit:mm



Model No:	VT-AU450-30V-MHB
SKU Code:	11883
EAN Code:	3800170218123
Qty Per Pallet:	31
Net Weight :	23.80kg
Product Size	1903* 1134*35mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	450.00
Maximum Power Voltage (Vmp)	34.79
Maximum Power Current (Imp)	12.94
Open Circuit Voltage (Voc)	41.40±3%
Short Circuit Current (Isc)	13.74±3%
Module Efficiency (%)	20.85

ELECTRICAL DATA(NOCT)

Peak Power (Pmax)	334.50
Maximum Power Voltage (Vmp)	32.29
Maximum Power Current (Imp)	10.36
Open Circuit Voltage (Voc)	38.77±3%
Short Circuit Current (Isc)	11.07±3%

MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	120(12*10)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

TEMPERATURE & MAXIMUM RATING

Maximum System Voltage(V)	1500 V
Maximum Series Fuse Rating(A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

450W

Mono Half Solar Panel



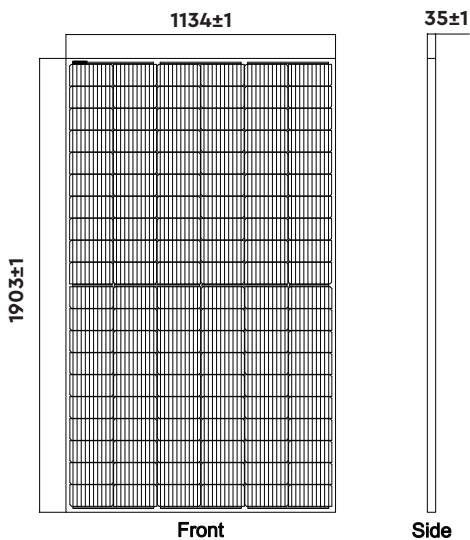
Model No:	VT-450MH
SKU Code:	11860
EAN Code:	3800170217485
Qty Per Pallet:	31
Net Weight :	23.80kg
Product Size	1903*1134*35mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	450.00
Maximum Power Voltage (Vmp)	34.79
Maximum Power Current (Imp)	12.94
Open Circuit Voltage (Voc)	41.40±3%
Short Circuit Current (Isc)	13.74±3%
Module Efficiency (%)	20.85

ELECTRICAL DATA (NOCT)

Peak Power (Pmax)	334.50
Maximum Power Voltage (Vmp)	32.29
Maximum Power Current (Imp)	10.36
Open Circuit Voltage (Voc)	38.77±3%
Short Circuit Current (Isc)	11.07±3%

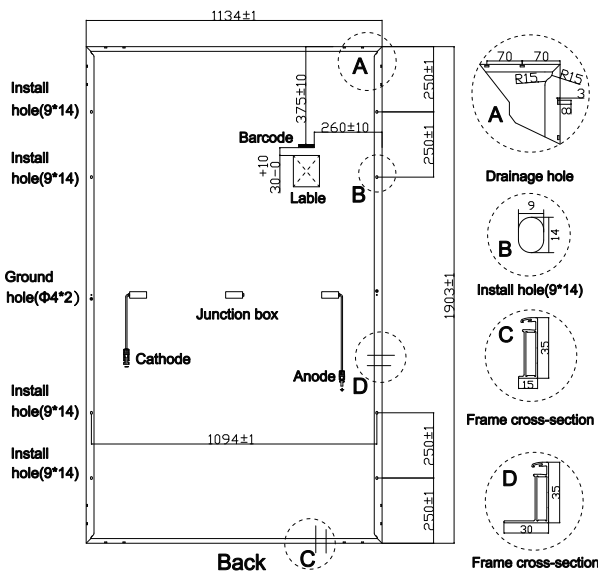


MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	120(12*10)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

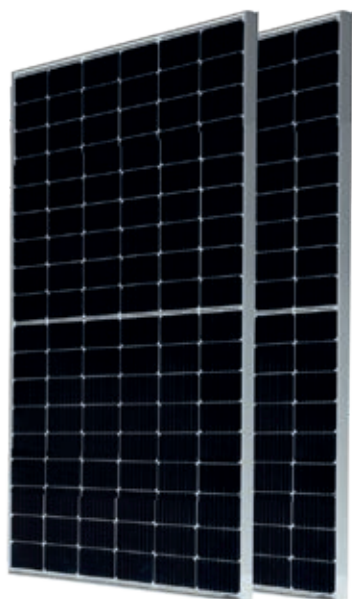
TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C



450W

Mono Half Solar Panel



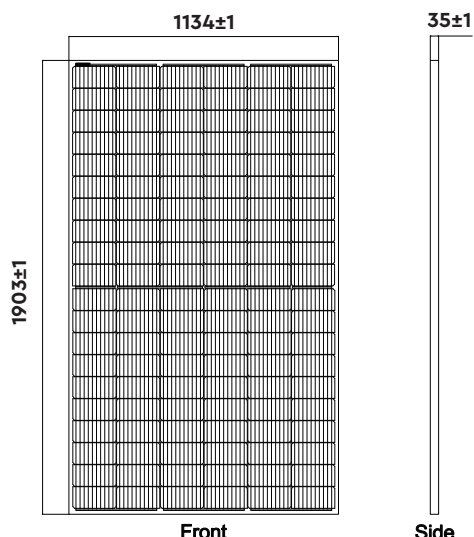
Model No:	VT-450MH
SKU Code:	11911
EAN Code:	3800170219977
Qty Per Pallet:	31
Net Weight :	23.8kg
Product Size	1903×1134×35mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	450.00
Maximum Power Voltage (Vmp)	34.79
Maximum Power Current (Imp)	12.94
Open Circuit Voltage (Voc)	41.40±3%
Short Circuit Current (Isc)	13.74±3%
Module Efficiency (%)	20.85

ELECTRICAL DATA (NOCT)

Peak Power (Pmax)	334.50
Maximum Power Voltage (Vmp)	32.29
Maximum Power Current (Imp)	10.36
Open Circuit Voltage (Voc)	38.77±3%
Short Circuit Current (Isc)	11.07±3%

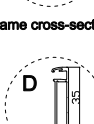
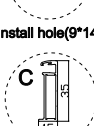
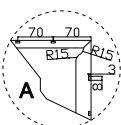
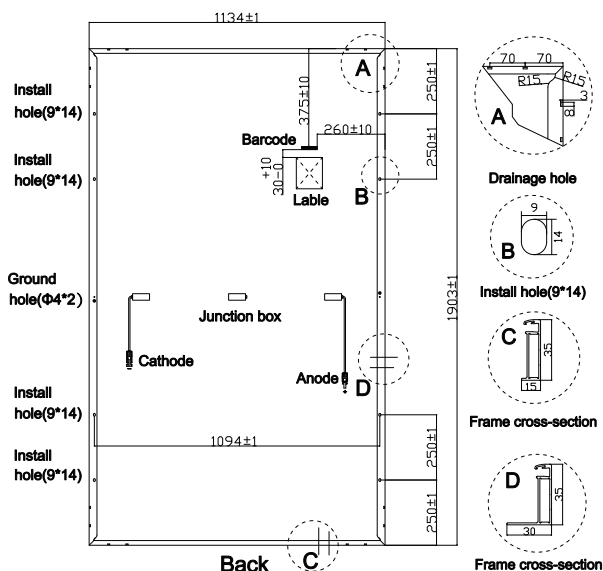


MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	120(12*10)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

TEMPERATURE & MAXIMUM RATING

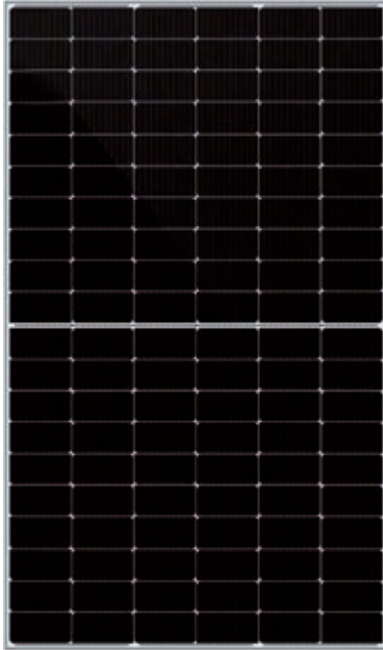
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C



Frame cross-section

460W

Mono Half Solar Panel Silver Frame

Tier 1


Model No:	VT-SP460-120M10
SKU Code:	11909
EAN Code:	3800170219830
Qty Per Pallet:	31
Net Weight :	23.5
Product Size	1910*1134*35

ELECTRICAL DATA (STC)

Max. Power at STC (P _{mp} /W)	460
Output Tolerance (W)	0~+3%
Max. Power Voltage (V _{mp} /V)	35.31
Max. Power Current (I _{mp} /A)	13.03
Open Circuit Voltage (V _{oc} /V)	41.90
Short Circuit Current (I _{sc} /A)	13.80
Module Efficiency (%)	21.24

ELECTRICAL DATA (NMOT)

Max. Power at NMOT (P _{mp} /W)	342
Max. Power Voltage (V _{mp} /V)	35.30
Max. Power Current (I _{mp} /A)	10.54
Open Circuit Voltage (V _{oc} /V)	39.10
Short Circuit Current (I _{sc} /A)	11.12

MECHANICAL CHARACTERISTICS

Cell Type	Mono-Crystalline PERC, 182x91mm
No. of Cells	120cells (Half-Cell)
Front Glass	3.2mm ultra clear embossed tempered coated glass
Frame	Anodized Aluminium Alloy
Junction box	IP68
Output cables	4mm ² , symmetrical lengths 1100mm
MaxWind Load/Snow Load	2400Pa/5400Pa

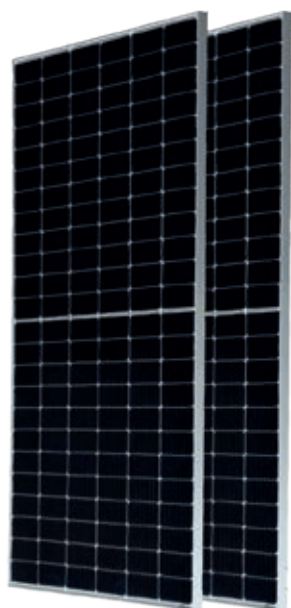
TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	DC 1500V (TÜV) / 1000(CUL)
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3%
P _{max} Temperature Coefficient (W/°C)	-0.34 %/°C
V _{oc} Temperature Coefficient (V/°C)	-0.27 %/°C
I _{sc} Temperature Coefficient (A/°C)	+0.048 %/°C
NOCT Nominal Operating Cell Temperature (°C)	44±2°C
Operating and Storage Temperature (°C)	-40~+85°C



545W

Mono Half Solar Panel



Model No:	VT-545W
SKU Code:	11354
EAN Code:	3800157682220
40ft Container:	62 Pallets/620pcs
Net Weight :	28.40kg
Product Size	2279*1134*35mm

ELECTRICAL DATA (STC)

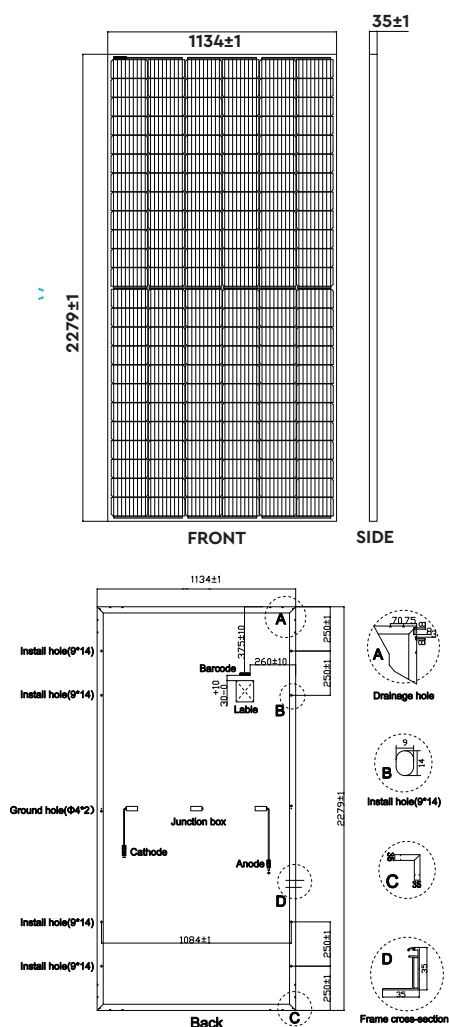
Peak Power (Pmax)	545.00
Maximum Power Voltage (Vmp)	41.93
Maximum Power Current (Imp)	13.00
Open Circuit Voltage (Voc)	49.90±3%
Short Circuit Current (Isc)	13.92±3%
Module Efficiency (%)	21.08

ELECTRICAL DATA (NOCT)

Peak Power (Pmax)	405.1
Maximum Power Voltage (Vmp)	38.93
Maximum Power Current (Imp)	10.41
Open Circuit Voltage (Voc)	46.73±3%
Short Circuit Current (Isc)	11.13±3%

MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	144(12*12)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 55cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

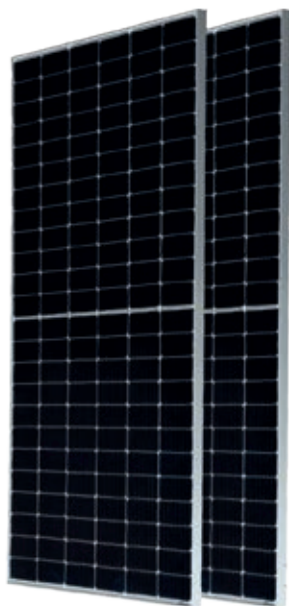


TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

545W

Mono Half Solar Panel



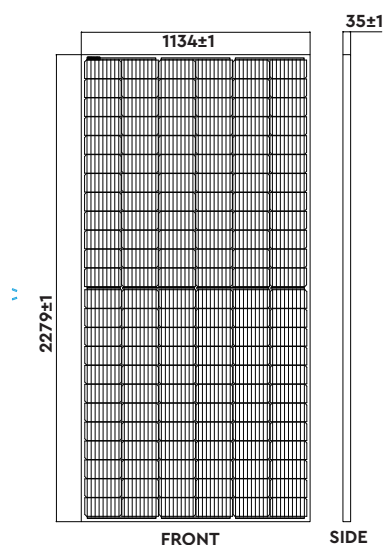
Model No:	AU545-36V-MH
SKU Code:	11932
EAN Code:	3800170220638
Qty Per Pallet:	31
Net Weight :	28.40kg
Product Size	2279*1134*35mm

ELECTRICAL DATA (STC)

Peak Power (Pmax)	545.00
Maximum Power Voltage (Vmp)	41.93
Maximum Power Current (Imp)	13.00
Open Circuit Voltage (Voc)	49.90±3%
Short Circuit Current (Isc)	13.92±3%
Module Efficiency (%)	21.08

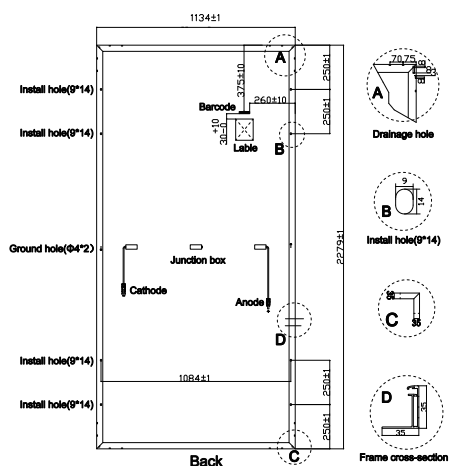
ELECTRICAL DATA (NOCT)

Peak Power (Pmax)	405.1
Maximum Power Voltage (Vmp)	38.93
Maximum Power Current (Imp)	10.41
Open Circuit Voltage (Voc)	46.73±3%
Short Circuit Current (Isc)	11.13±3%



MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	144(12*12)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa



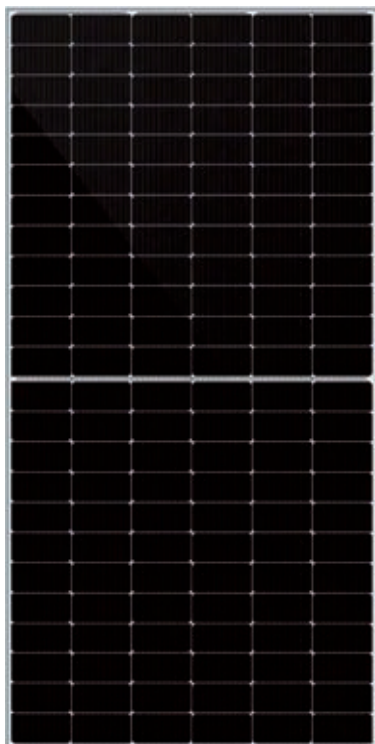
TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

550W

Mono Half Solar Panel Silver Frame

Tier 1



Model No:	VT-SP550-144M10
SKU Code:	11895
EAN Code:	3800170218383
Qty Per Pallet:	31
Net Weight :	29kg
Product Size	2279*1134*35mm

ELECTRICAL DATA (STC)

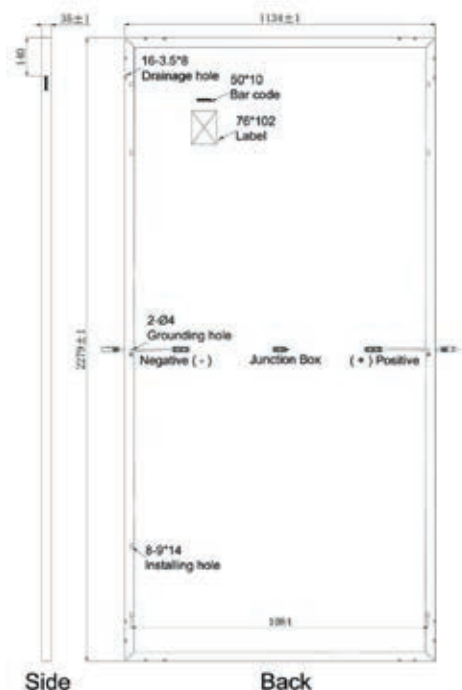
Peak Power(Pmax)	550
Maximum Power Voltage (Vmp)	41.96
Maximum Power Current (Imp)	13.11
Open Circuit Voltage (Voc)	49.90
Short Circuit Current (Isc)	14.00
Module Efficiency (%)	21.28

ELECTRICAL DATA (NOCT)

Peak Power(Pmax)	410
Maximum Power Voltage (Vmp)	38.50
Maximum Power Current (Imp)	10.65
Open Circuit Voltage (Voc)	46.50
Short Circuit Current (Isc)	11.28

MECHANICAL CHARACTERISTICS

Cell Type	Mono-Crystalline PERC, 182x91mm
No. of Cells	144 cells (Half-Cell)
Front Glass	3.2mm ultra clear embossed tempered coated glass
Frame	Anodized Aluminium Alloy
Junction box	IP 68
Output cables	4mm ² , symmetrical lengths 1300mm
MaxWind Load/Snow Load	2400Pa/5400Pa



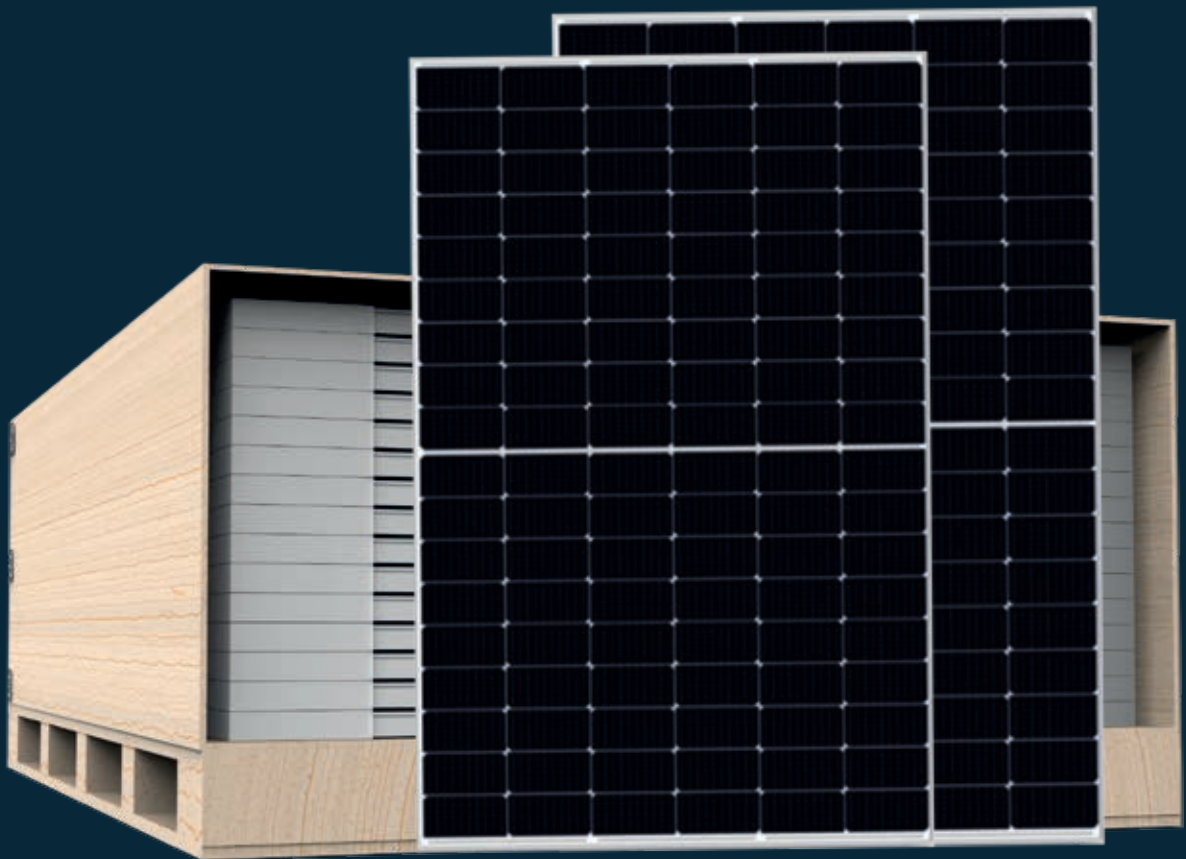
TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	DC 1500V(TÜV,UL) / 1000V(CUL)
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3%
Pmax Temperature Coefficient (W/°C)	-0.34 %/°C
Voc Temperature Coefficient (V/°C)	-0.27 %/°C
Isc Temperature Coefficient (A/°C)	0.048 %/°C
NOCT Nominal Operating Cell Temperature (°C)	44±2°C
Operating and Storage Temperature (°C)	-40~+85°C

SOLAR PANELS SETS



V-TAC launches an innovative way to transport our solar panel range: with the usage of especially packed solar panel sets. The sets were designed with homes and small industrial projects in mind, providing a limited number of panels to match customers' requirements. Our state-of-the-art 410W and 450W panels are packed methodically in mini pallets, which can then be easily transported directly on site to provide the exact power and energy required.





4.92 kW/SET

410W

12

**PCS
PANELS**

Half Mono Solar
Panel Black Frame

SKU Code: 11562

Product Size D:1722*1134*35MM



4.92 kW/SET

410W

12

**PCS
PANELS**

Slim Half Mono
Solar Panel

SKU Code: 11549

Product Size D:1722*1134*30MM



4.92 kW/SET

410W

12

**PCS
PANELS**

Half Mono Solar
Panel

SKU Code: 11550

Product Size D:1722*1134*35MM



4.95 kW/SET

450W

11

**PCS
PANELS**

Half Mono Solar
Panel

SKU Code: 11553

Product Size D:2094*1038*35MM



6.15 kW/SET

410W

15

PCS
PANELSHalf Mono Solar
Panel Black Frame

SKU Code: 11563

Product Size D:1722*1134*35MM



6.15 kW/SET

410W

15

PCS
PANELSSlim Half Mono
Solar Panel

SKU Code: 11551

Product Size D::1722*1134*30MM



6.15 kW/SET

410W

15

PCS
PANELSHalf Mono Solar
Panel

SKU Code: 11552

Product Size D:1722*1134*35MM



6.30 kW/SET

450W

14

PCS
PANELSHalf Mono Solar
Panel

SKU Code: 11554

Product Size D:2094*1038*35MM

SOLAR SYSTEMS

V-TAC
Meaningful Innovation.



We are dedicated to helping you shift to clean energy – our solar system kits are designed so anyone can easily jumpstart their journey to having a sustainable, solar power system. On-grid and hybrid options are available, so you can either keep your local electric connection or live off-the-grid at your choice. Whether residential, commercial, or industrial, we offer complete solar systems to meet your power needs at your specifications.





On-grid Solar System

4.92 kWp

SKU	Product	Specification	Quantity
11549	Half Mono Solar Panel	410W with 1 meter cable	12
11370	Single Phase On-Grid Solar Inverter	5kW	1

Assorted Accessories (in Accessories Section)

On-Grid PV systems are those that utilize utility (grid) power - whether for utility, commercial, residential or stand-alone buildings. On-grid systems are designed to partially or entirely satisfy a user's energy needs, thereby offsetting utility grid energy demand.



Hybrid Solar System

4.92 kWp

SKU	Product	Specification	Quantity
11549	Half Mono Solar Panel	410W with 1 meter cable	12
11547	Single Phase Hybrid Solar Inverter	5kW	1
11448	Wall Mounting Battery Pack	5kWh	1

Assorted Accessories (in Accessories Section)

Whether it is installed on a roof or in a remote location, this 5kW Complete Solar Panel System Kit with Battery and Inverter can be easily connected to any electrical system. PV systems generate electricity during the day, which is initially supplied to loads. HybridInverters will then charge the battery with the excess energy. Lastly, the stored energy can be released when needed.



Hybrid Solar System

9.97 kWp

SKU	Product	Specification	Quantity
11549	Half Mono Solar Panel	410W with 1 meter cable	24
11542	Three Phase Hybrid Solar Inverter	10kW	1
11447	Wall Mounting Battery Pack	10kWh	1

Assorted Accessories (in Accessories Section)

Whether it is installed on a roof or in a remote location, this 5kW Complete Solar Panel System Kit with Battery and Inverter can be easily connected to any electrical system. PV systems generate electricity during the day, which is initially supplied to loads. HybridInverters will then charge the battery with the excess energy. Lastly, the stored energy can be released when needed.

PORTABLE POWER STATION

V-TAC
Meaningful Innovation.



Intelligent monitoring

Real-time monitoring of product performance.



Battery balance system

Extend the service life of batteries and ensure the consistency of batteries.



Short-circuit protection

Auto-cut circuit when short occurs.



Temperature protection

Guarantee battery working at safe temperature.



Overcharge protection

Prevent battery from overcharging and auto-stop when fully charged.



Over-current protection

Auto-cut circuit when overcurrent occurs.



Overpower protection

Product has dynamic power protection which will auto-stop output when overpower occurs.



Over-voltage protection

Protect product from high or low voltage harm to ensure product and facilities safe.

Bring the power right where you need it. Our portable power stations aim to help you power basic necessities wherever you are – whether it be in mobile homes, camp sites, and more. Each unit features intelligent energy monitoring, short circuit protection, overcharge & overpower protection, anti-overheating, and voltage protection. Made with high quality, long-life lithium batteries that are consistent and reliable.



Portable Power Station

500W

Model	VT-606
SKU Code	11442
Qty:	1pc/box
Net Weight	5.4KG
Product Size	275x170x200mm



GENERAL DATA

Battery Pack	26.2Ah /21.6V 568Wh
AC Rated Output	500Wh
AC Charge Adaptor	20V,5A (Support 12V-24V)
Solar Charge	DC18V-22V Max 5A.
AC Output	220V Continuous 500W peak Value 1000W
DC Output	12V,8A
Wireless Charging Output	15W
USB Output	5V 2.4A 12W max
QC Output	QC3.0 5V/3A, 9V/2A,12V1.5A (18W Max)
USB C Output	5-20V/3.25A (65W Max)
Cycle Life	Cycled > =1000 Ternary lithium Battery



NEW **Portable Power Station**

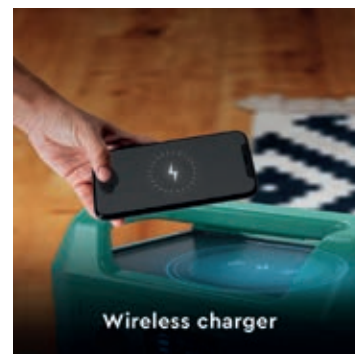
300W

Model	VT-303N
SKU Code	EU-Plug -11625 BS-Plug -11740
Qty:	1pc/box
Net Weight	4.3 kgs
Product Size	W*H*L 249*171.5*208mm



GENERAL DATA

BATTERY	Battery capacity	LiFePO4(IRF32135 19.2V 15Ah/288Wh)	
	Cell model	IRF32135	
DC/INPUT	DC 7909 INPUT	12-20V 120W max Charger	Parallel input
	XT60 Solar Charger	12-24V 120W max Charger	
USB/OUTPUT	USB1 Output	18W 5V3.5A	
	USB2 Output	QC 3.0 18W 5V3A/9V2A/12V1.5A	
	TYPE-C 1 Output	PD18W ,5V3A/9V2A/12V1.5A	
	TYPE-C2 Output	PD65W ,5V3A / 9V3A / 12V3A / 15V3A / 20V3.25A	
DC OUTPUT	DC 1 Output	12V/8A	100W shared
	DC 2 Output	12V/8A	
	Auxiliary Power Outlet	12V/8A	
AC OUTPUT	AC Output 1	AC Power Output 230V Sine Wave 300W Peak 500W	
	Output Frequency max	Sine Wave 300W Peak 500W	
	Frequency	50Hz	
WIRELESS CHARGER	DC	15W 5V 3A	
LED LIGHT	Power	3W	
	Mode	High-Light/Low-light/SOS/Flash	



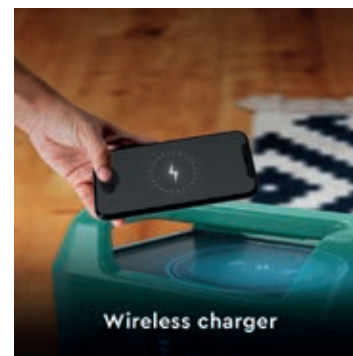
NEW Portable Power Station

600W

Model	VT-606N
SKU Code	EU-Plug -11626 BS-Plug -11741
Qty:	1pc/box
Net Weight	7.8 kgs
Product Size	W*H*L 295*206*228.5mm


GENERAL DATA

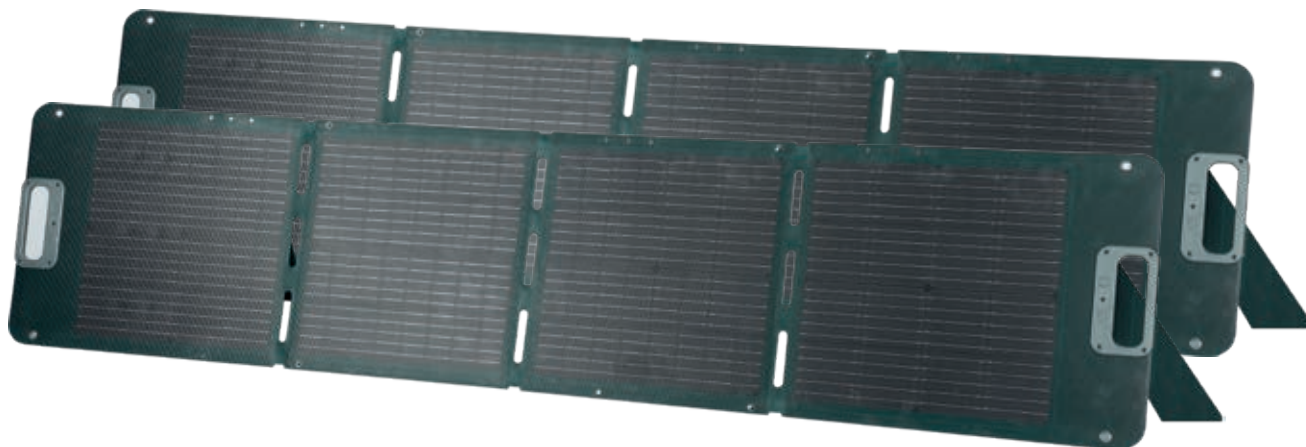
BATTERY	Battery capacity	LiFePO4(IRF32135 19.2V 15Ah/288Wh)	
	Cell model	IRF32135	
DC/INPUT	DC 7909 INPUT	12-20V 120W max Charger	Parallel input
	XT60 Solar Charger	12-24V 120W max Charger	
USB/OUTPUT	USB1 Output	18W 5V3.5A	
	USB2 Output	QC 3.0 18W 5V3A/9V2A/12V1.5A	
	TYPE-C 1 Output	PD18W ,5V3A/9V2A/12V1.5A	
	TYPE-C2 Output	PD65W ,5V3A / 9V3A / 12V3A / 15V3A / 20V3.25A	
DC OUTPUT	DC 1 Output	12V/8A	100W shared
	DC 2 Output	12V/8A	
	Auxiliary Power Outlet	12V/8A	
AC OUTPUT	AC Output 1	AC Power Output 230V Sine WAVE 600W PEAK 1000W	600W `shared
	AC Output 2	AC Power Output 230V Sine WAVE 600W PEAK 1000W	
	Output Frequency max	Sine WAVE 600W PEAK 1000W	
	Frequency	50Hz	
WIRELESS CHARGER	DC	15W 5V 3A	
LED LIGHT	Power	3W	
	Mode	High-Light/Low-light/SOS/Flash	



Folding Solar Panels

COMPATIBLE WITH POWER STATIONS

02 YEAR
WARRANTY



KICKSTANDS
MAKE THE PANEL
MORE EFFICIENT AT
ABSORBING ENERGY



HANGING
SUITABLE FOR
HANGING ANYWHERE
AND RELEASING SPACE

80W

Model No	VT-10080
SKU Code	11564
Qty Per Pallet	500 pcs
Gross Weight	5.2KG±0.3Kg

Battery type	Monocrystalline solar cells
Folding method	1*4 fold
Folded size	366*356*54mm±5mm
Expanded Size	1670*356*25mm±5mm
Weight (NW)	4.3KG±0.5KG
Standard working Voltage	17.6V
Standard Working Current	4.54A

120W

Model No	VT-10120
SKU Code	11446
Qty Per Pallet	500 pcs
Gross Weight	6.3KG±0.5KG

Battery type	Monocrystalline solar cells
Folding method	1*4 fold
Folded size	430*540*54mm±5mm
Expanded Size	1930*430*25mm±5mm
Weight (NW)	4.0KG±0.3Kg
Standard working Voltage	17.6V
Standard Working Current	6.36A

2Wx120W

Model No	VT-10241
SKU Code	11565
Qty Per Pallet	500 pcs
Gross Weight	12.8KG±0.5KG

Battery type	Monocrystalline solar cells
Folding method	1*4 fold x 2pieces
Folded size	430*540*54mm±5mm
Expanded Size	1930*430*25mm±5mm
Weight (NW)	4.0KG±0.3Kg
Standard working Voltage	17.6V
Standard Working Current	12.72

160W

Model No	VT-10160
SKU Code	11566
Qty Per Pallet	200 pcs
Gross Weight	9KG±0.5KG

Battery type	Monocrystalline solar cells
Folding method	1*4 fold
Folded size	680*468*54mm±5mm
Expanded Size	1670*680*25mm±5mm
Weight (NW)	6KG±0.5KG
Standard working Voltage	17.6V
Standard Working Current	9.08A

NEW Solar DC String Box

2 Strings Input 2 Strings Output DC

SKU Code: **11951****GENERAL DATA**

Input	2 strings
Output	2 strings
Maximum Voltage	1000V
Max DC Short Circuit Current Per Input (Isc)	16A (Changeable)
Maximum Current Output	16A

PV SURGE PROTECTOR

Max Operation Vooltage (Ucpv)	1000V
Standard Compliance with	IEC/EN 61643-31
Maximum Discharge Current	40kA
Certification	TUV, CE

ENCLOSURE

Material Type	Polycarbonate/ABS
Degree of Protection	IP65
Degree of Resistance to Impacts	IK08
Dimension (WxHxD)	273 x 365 x 118mm
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²
Output Cable Gland	PG21 2.5-16mm ²

ENVIRONMENT

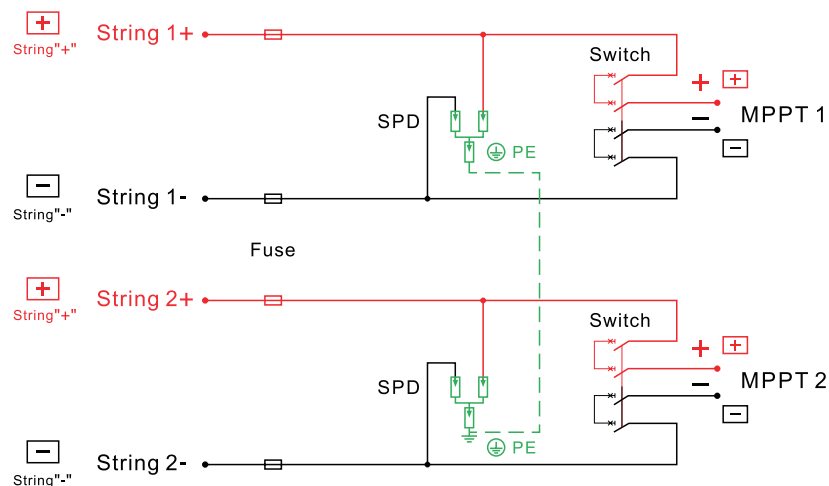
Operating Temperature	-20°C to + 60°C
Humidity	99%
Altitude	2000M
Installation	Wall Mounting

DC CIRCUIT BREAKERS

Rated Insulation Voltage (Ui)	1000V
Rated Current (Ie)	16A (Changeable)
Category	DC-Breaker
Standard Compliance with	IEC/EN 60947-2
Certification	CE

DC FUSE HOLDER

Thermoplastic	Yes
Standard Compliance with	IEC 60269-6
Rated Working Voltage	1000V
Fuse Link	10x38mm, 16A (Changeable)
Certification	CE



NEW Solar DC String Box

3 Strings Input 3 Strings Output DC

 SKU Code: **11952**

GENERAL DATA

Input	3 strings
Output	3 strings
Maximum Voltage	1000V
Max DC Short Circuit Current Per Input (Isc)	16A (Changeable)
Maximum Current Output	16A

PV SURGE PROTECTOR

Max Operation Vooltage (Ucpv)	1000V
Standard Compliance with	IEC/EN 61643-31
Maximum Discharge Current	40kA
Certification	TUV, CE

ENCLOSURE

Material Type	Polycarbonate/ABS
Degree of Protection	IP65
Degree of Resistance to Impacts	IK08
Dimension (WxHxD)	38 1 x 365 x 118mm
Cable input Entry	PG09 Cable Gland, 2.5-16mm²
Output Cable Gland	PG21 2.5-16mm²

ENVIRONMENT

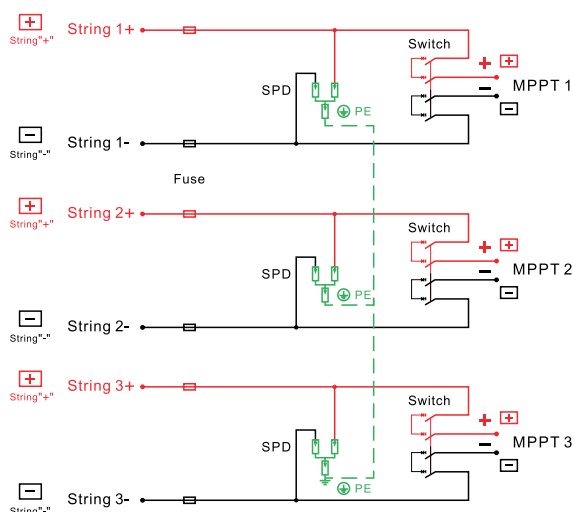
Operating Temperature	-20°C to + 60°C
Humidity	99%
Altitude	2000M
Installation	Wall Mounting

DC CIRCUIT BREAKERS

Rated Insulation Voltage (Ui)	1000V
Rated Current (Ie)	16A (Changeable)
Category	DC-Breaker
Standard Compliance with	IEC/EN 60947-2
Certification	CE

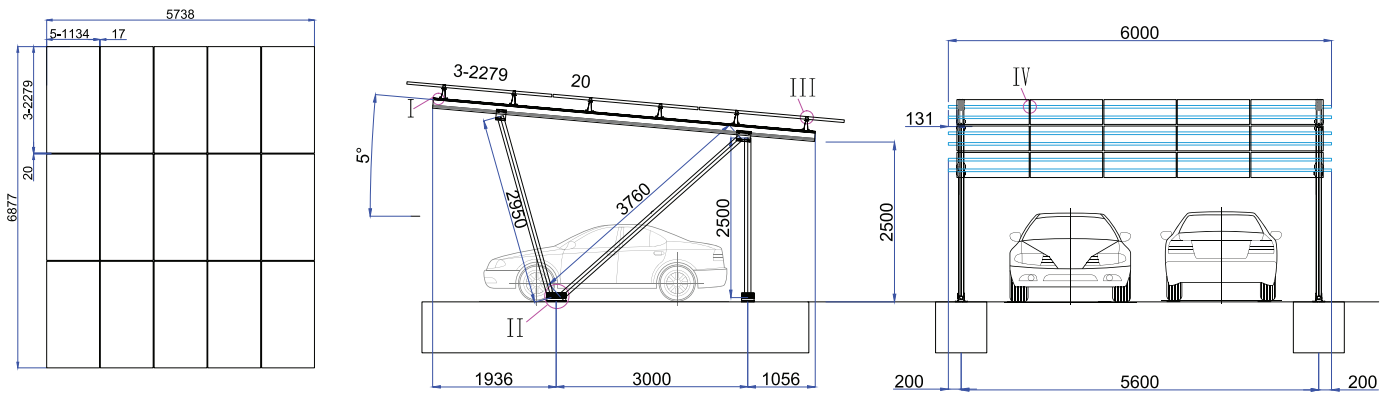
DC FUSE HOLDER

Thermoplastic	Yes
Standard Compliance with	IEC 60269-6
Rated Working Voltage	1000V
Fuse Link	10x38mm, 16A (Changeable)
Certification	CE

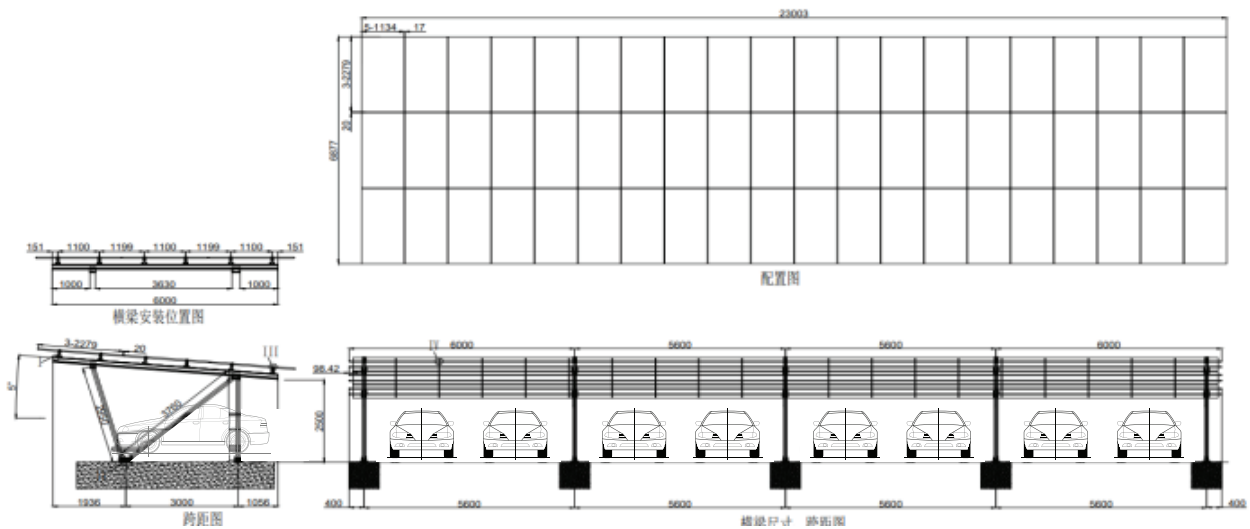




Carport for 2 cars



Carport for 8 cars



Crossbar Rail

SKU	Size	2 cars Qty	8 cars Qty
118211	6000mm	6	12



Clamping kit

SKU	Size	2 cars Qty	8 cars Qty
118212	35mm	48	120



Mid Clamp

SKU	Size	2 cars Qty	8 cars Qty
118213	35mm	24	114



End Clamp

SKU	Size	2 cars Qty	8 cars Qty
118214	35mm	12	12



Carport Stringer

SKU	Size	2 cars Qty	8 cars Qty
118215	5900mm	2	5



H Jackets

SKU	Size	2 cars Qty	8 cars Qty
118216	150mm	2	34
118217	220mm		



Carport Tube

SKU	Size	2 cars Qty	8 cars Qty
118218	2500mm	2	5
118219	3760mm		
118220	2950mm		



Base

SKU	Size	2 cars Qty	8 cars Qty
118221	200mm	6	5
118222	300mm		



Waterproof Accessories

SKU	2 cars Qty	8 cars Qty
118223	28	135



PV CABLES

V-TAC
Meaningful Innovation.

PV cables, also known as solar cables or photovoltaic cables, are electrical cables specifically designed for use in solar power systems. These cables are used to connect solar panels to other components within the system, such as inverters, charge controllers, and batteries.





PV CABLES

	50M ROLL	100M ROLL	500M ROLL
4mm ² Red	SKU : 11821	SKU : 11418	SKU : 11807
4mm ² Black	SKU : 11822	SKU : 11414	SKU : 11805
6mm ² Red	SKU : 11829	SKU : 11419	SKU : 11808
6mm ² Black	SKU : 11830	SKU : 11415	SKU : 11806

4mm²

Conductor

Size

Stranding

Diameter

Primary Insulation

Minimum Average Thickness

Secondary Insulation

Minimum Average Thickness

Outer Diameter

Stranded tinned copper

4mm²

56/0.285±0.01mm

2.4mm

XLPE

0.7mm

XLPE

0.8mm

5.5±0.15mm

6mm²

Stranded tinned copper

6mm²

84/0.285±0.01mm

3.0mm

XLPE

0.7mm

XLPE

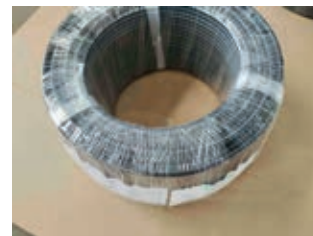
0.8mm

6.1±0.2mm

50M ROLL



100M ROLL



500M ROLL





END CLAMP 35MM
SKU: 11388



MIDDLE CLAMP 35MM SKU: 11389



SILVER RAIL
1.2 METER SKU: 11390
2 METERS SKU: 11538



BLACK RAIL
2 METERS SKU: 11997



ROOFTOP HOOK-01
SKU: 11391

ADJUSTABLE PORTRAIT HOOK
SKU: 11746



L FEET GROUP
SKU: 11583



STEEL HORSE-SHAPED KLIPLOCK01 SET
SKU: 11584



STEEL HORSE-SHAPED KLIPLOCK02 SET
SKU: 11585



TT-NUT
SKU: 11392



SPLICE FOR RAIL
SKU: 11394



GROUNDING PLATE
SKU: 11395



ADJUSTABLE FRONT LEG
SKU: 11417



ADJUSTABLE REAR LEG
(10°-15°) SKU: 11385
(15°-30°) SKU: 11386



PV CABLE CONNECTOR-MC4
SKU: 11413



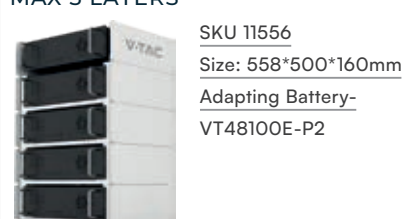
TRIANGLE SUPPORT-1700
SKU: 11387



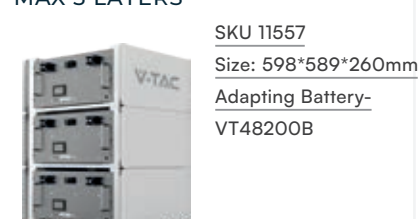
PV6 CABLE WITH MC4 CONNECTORS 2 END FOR SOLAR PANEL CONNECTION
1 METER SKU: 11570
2.5 METERS SKU: 11416



WIFI DONGLE FOR INVERTERS
SKU: 11528 SKU: 11378



STORAGE BATTERY RACK MAX 5 LAYERS
SKU 11556
Size: 558*500*160mm
Adapting Battery-
VT48100E-P2



STORAGE BATTERY RACK MAX 3 LAYERS
SKU 11557
Size: 598*589*260mm
Adapting Battery-
VT48200B


SINGLE PHASE SMART METER

SKU: 11545

Nominal voltage	220V, 230, 240V
Current	5(80) A
Reference frequency	50Hz or 60Hz
Accuracy	Class 1.0
Operating range	0.85Un ~ 1.15Un
Power consumption	Voltage loop: 1W/5VA; Current loop: 2VA


THREE PHASE SMART METER

SKU: 11546

Nominal voltage	3x220~240/380~415V; 3x120~138/208~240V
Current	Direct access: 5(80)A; Mutual access: 1.5(6)A
Reference frequency	50Hz or 60Hz
Accuracy	Class 1.0 for 5(80)A; Class 0.5 for 1.5(6)A
Operating range	0.85Un ~ 1.15Un
Power consumption	1W/8VA



Meaningful Innovation.

TO MAKE THE WORLD A BRIGHTER PLACE THROUGH MEANINGFUL INNOVATION.

Everything we do is strengthened by our purpose to make this world a brighter place, by providing high-quality, efficient, and sustainable products to our customers.

Our idea of a brighter world is where we enable people to make their lives more comfortable and safe while building a sustainable future.

MOVING TOWARDS SUSTAINABILITY.



Meaningful Innovation.

OUR VISION & MISSION

THE BIGGER PICTURE VISION

To become a global leader in providing the most efficient and sustainable products.

THE DRIVING FORCE MISSION

Harness the power of meaningful innovation into providing absolute value to our customers and the planet.

V-TAC

Meaningful Innovation.

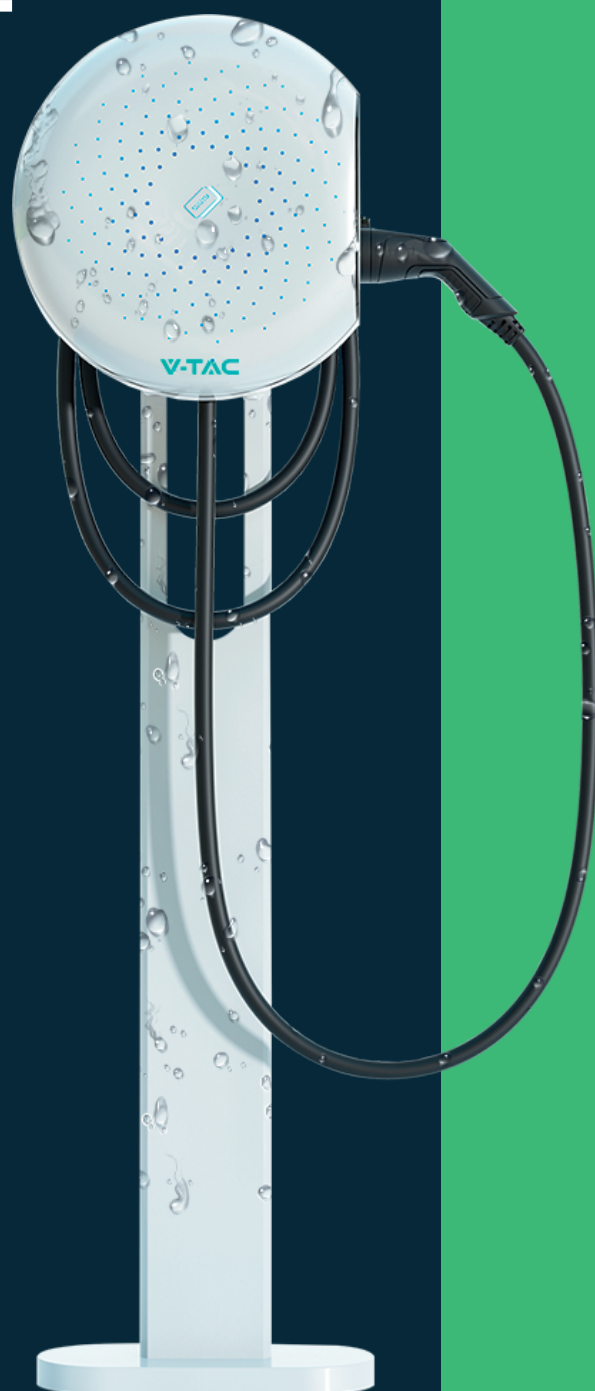
www.v-tac.eu

TOWARDS A BRIGHTER FUTURE



RoHS

CEI 0-21
CERTIFICATE



SKU 22025