

BiMAX 6R**600-625W**

SP625M-66H

N-Type TOPCon Bifacial
Double-Glass Solar Module**23.14%**

Max. Module Efficiency

N-Type 182*210mm Cell

Adopting the 182*210mm N-Type TOPCon cells with the highest efficiency.

Bifacial with Double-Glass

Module adopts 182*210mm half cells, bifacial module provide an additional 5%~25% output.

Load Capacity

Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV.

PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.

Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV.

Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).

IEC62716 (Ammonia), IEC60068-2-68(Sand).

ISO 9001:2015/quality management system.

ISO 14001:2015/environmental management system.

ISO 45001:2018/occupation health safety management system.

ISO 50001:2011/energy management system.

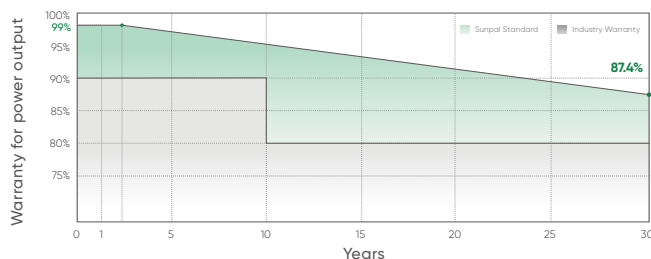
IEC TS 62941-2016/PV industry quality management system.

Quality Guarantee**25 Years**

Materials Warranty

30 Years

Power Warranty



Mechanical Characteristics

Weight	33.5kg
Dimensions	2382×1134×30mm
Cell Dimensions	182×210mm
Cell Amount	66×2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Glass Thickness	(F) 2.0mm, Anti-Reflection Coating (B) 2.0mm, Heat Strengthened Glass
Frame	Aluminum Alloy
Cable	4mm ² , 300mm in length, length can be customized / UV resistant
Connector	MC4 Compatible
Bifaciality	80±5%
Packing	36pcs/box, 720pcs/40'HQ

Electrical Parameters (STC*)

Module Type: SP625M-66H	600	605	610	615	620	625
Maximum Power (P _{max} /W)	600	605	610	615	620	625
Open Circuit Voltage (V _{oc} /V)	48.45	48.75	49.05	49.35	49.55	49.75
Short Circuit Current (I _{sc} /A)	15.78	15.81	15.84	15.88	15.93	16.00
Voltage at Maximum Power (V _{mp} /V)	40.26	40.46	40.66	40.86	41.06	41.26
Current at Maximum Power (I _{mp} /A)	14.90	14.95	15.00	15.05	15.10	15.15
Module Efficiency (%)	22.21	22.40	22.58	22.77	22.95	23.14

*STC: Irradiance 1000W/m², cell temperature 25°C, AM=1.5. Tolerance of P_{max} is within ±3%.

Electrical Parameters (NMOT**)

Maximum Power (P _{max} /W)	458	461	465	469	472	476
Open Circuit Voltage (V _{oc} /V)	45.91	46.21	46.51	46.81	47.01	47.21
Short Circuit Current (I _{sc} /A)	12.73	12.76	12.78	12.81	12.84	12.88
Voltage at Maximum Power (V _{mp} /V)	37.80	38.00	38.20	38.40	38.60	38.80
Current at Maximum Power (I _{mp} /A)	12.12	12.13	12.17	12.21	12.23	12.27

**NMOT: Under Nominal Module Operating Temperature (NMOT), irradiance of 800W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s.

Electrical Parameters (At 10% Bifacial Power Output)

Output Power (P _{max} /W)	660	666	671	677	682	688
Open Circuit Voltage (V _{oc} /V)	48.45	48.75	49.05	49.35	49.55	49.75
Short Circuit Current (I _{sc} /A)	17.34	17.38	17.43	17.47	17.52	17.57
Voltage at Maximum Power (V _{mp} /V)	40.26	40.46	40.66	40.86	41.06	41.26
Current at Maximum Power (I _{mp} /A)	16.39	16.46	16.50	16.57	16.61	16.67

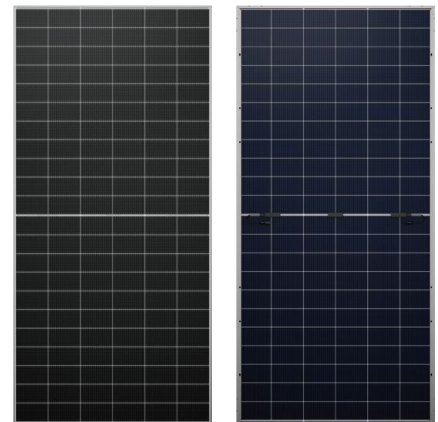
Temperature Characteristics

NMOT	41±3°C
Temp. Coefficient of V _{oc}	-0.25%/°C
Temp. Coefficient of I _{sc}	+0.046%/°C
Temp. Coefficient of P _{max}	-0.30%/°C

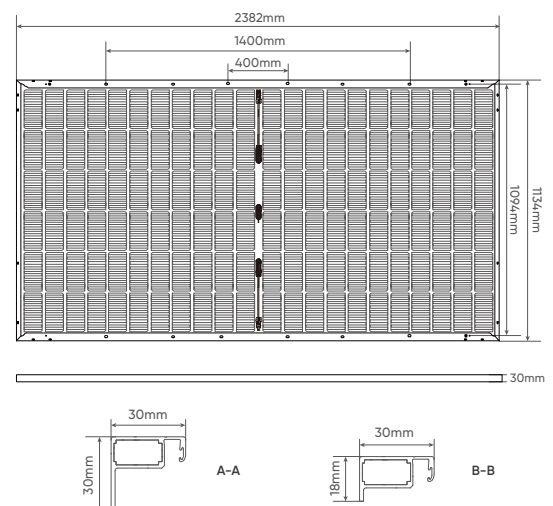
Maximum Rating

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400Pa/5400Pa
Fuse Current	25A

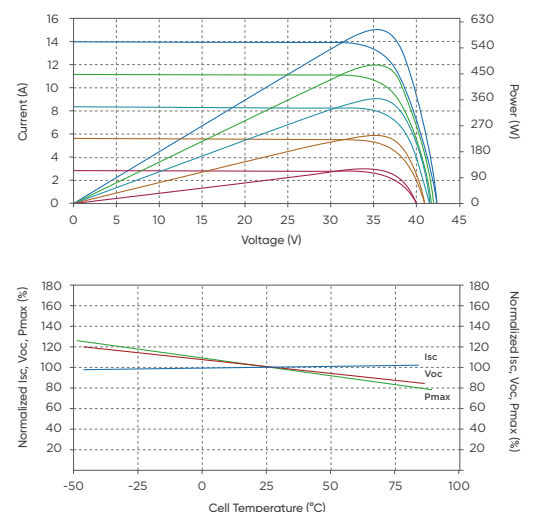
Product Image



Drawings

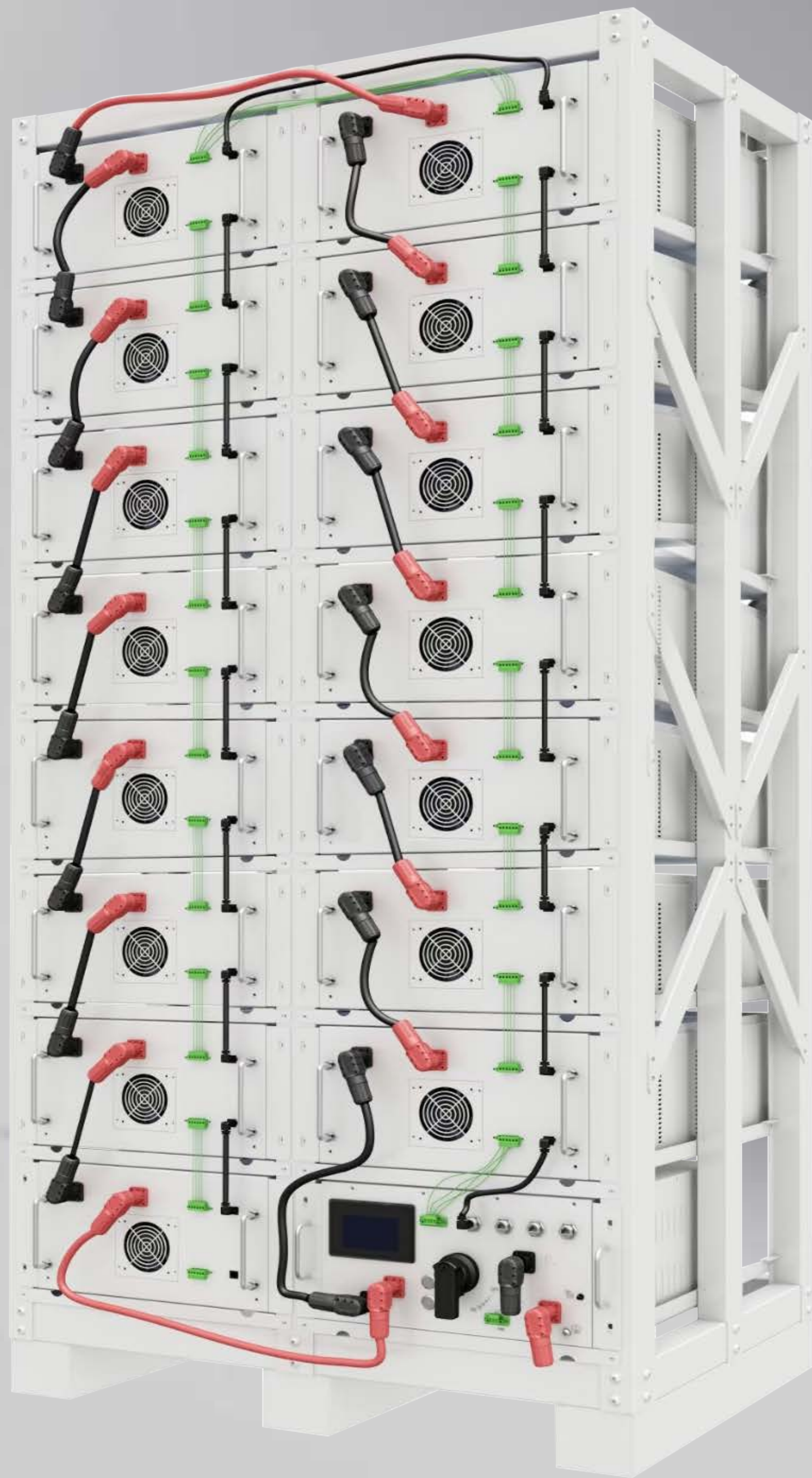


Characteristics (SP610M-66H-610W)

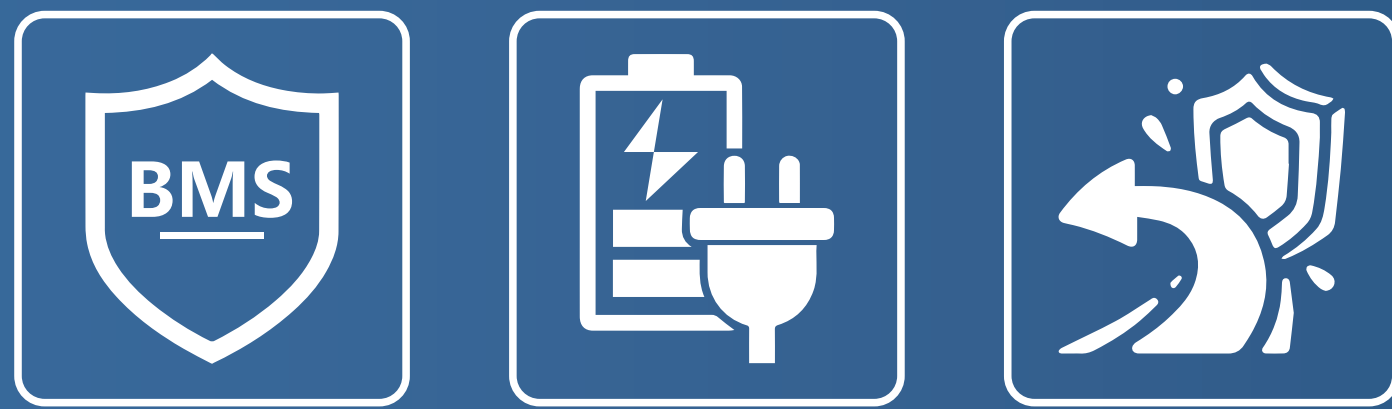


HIGH VOLTAGE

LiFePO4 BATTERY



307.2-614.4V
HVM64-160S314BL-U



01 BATTERY FEATURES

- ◆ Original A-grade lithium iron phosphate battery cell has high safety and reliability
- ◆ Intelligent integrated BMS, all-round protection strategy and fault detection
- ◆ Modular design, parallel expansion, flexible choice of voltage and capacity
- ◆ Large capacity, high charging and discharging efficiency, more than 6000 cycle life
- ◆ Built-in fire extinguishing device, automatically deal with ultra-early warning thermal runaway status
- ◆ Bottom tripod design, standard cabinet for easy installation and easy maintenance
- ◆ ON/OFF switch control output
- ◆ LCD display, dynamic display of system operating status data

Product Description				
Product Type	HVM96S314BL-U	HVM128S314BL-U	HVM160S314BL-U	HVM192S314BL-U
Number of Modules	6	8	10	12
Battery Capacity	314Ah	314Ah	314Ah	314Ah
Battery Energy	96.46KWh	128.61KWh	160.76KWh	192.92KWh
Size(L×W×H) mm	550×811×2080	1100×811×1570	1100×811×1800	1100×811×2080
Weight	830Kg	1100Kg	1355Kg	1480Kg
Standard Charge Current	100A	100A	100A	100A
Standard Discharge Current	200A	200A	200A	200A
Features				
Battery Type	LFP			
Cycle Life	≥ 6000 times @ 80% DOD, 25 °C			
Nominal Voltage	307.2V	409.6V	512V	614.4V
Operating Voltage Range	160-584V			
IP Protection	IP 21			
Installation	Cabinet Holding			
Charging Temperature	0~60℃			
Discharge Temperature	-10~60℃			
Conventional				
BMS Monitoring Parameters	SOC, System voltage,current, cell voltage, cell temperature, PCBA temperature measurement			
Communication Port	RS485/CAN			
Waranty	5 or 10 years(optional)			

02 FIELDS OF APPLICATION

High Voltage Energy Storage Batteries can be stacked, and the main use areas are as follows:

Standby power

Home energy storage

Machine shop

Solar storage ...

...

HPS100/150HV

Large capacity all-in-one hybrid inverter for commercial application, supporting up to 600kW system capacity.

Features



Multiple MPPTs

2 MPPTs to increase the possibility of PV access, improve the power generation efficiency of solar.



High Battery Voltage Range

600-900V Battery voltage to expand battery configuration flexibility, improve system efficiency.



High PV Voltage range

1500V Level PV voltage to reduce the number of PV cables, lower system investment costs.



Touchscreen LCD



Programmable working mode



Seamless on/off grid transfer within 10 ms



Support remote control of DG



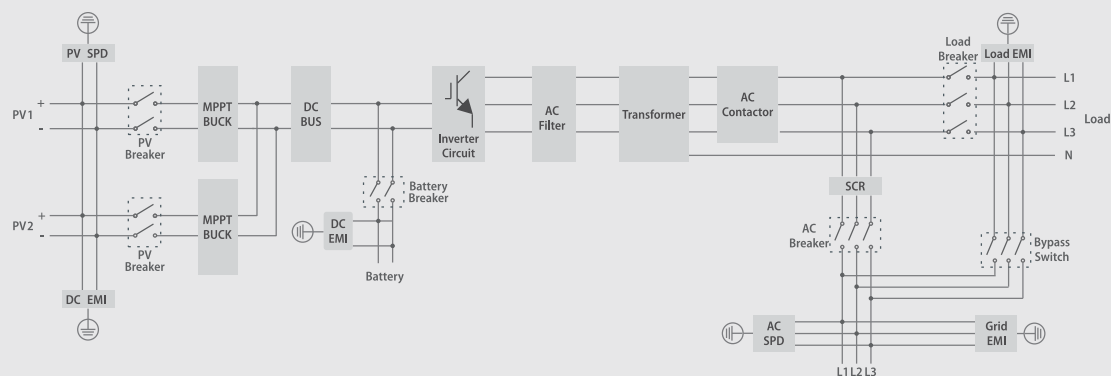
All-in-one hybrid inverter



Max. 8 units in parallel for on&off grid operation



Block Diagram



HPS100-HV**HPS150-HV****AC(on-grid)**

Apparent power	110kVA	165kVA
Rated power	100kW	150kW
Rated voltage	400V	400V
Rated current	144A	217A
Voltage range	360V-440V	360V-440V
Rated frequency	50/60Hz	50/60Hz
Frequency range	45~55/55~65Hz	45~55/55~65Hz
THDI	<3%	<3%
PF	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading
AC connection	3/N/PE	3/N/PE
AC input	200kVA	240kVA

AC(off-grid)

Apparent power	110kVA	165kVA
Rated power	100kW	150kW
Rated voltage	400V	400V
Rated current	144A	217A
THDU	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz
Overload capability	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min

DC (Battery and PV)

Max. PV open-circuit voltage	1500V DC	1500V DC
Max. PV power	150kWp	225kWp
PV MPPT voltage range	900V-1300V DC	900V-1300V DC
MPPT number	2	2
Max. PV current	2*80A	2*100A
Battery voltage range	600-900V	600-900V
Battery voltage range at max. charge power	804V-900V	804V-900V
Max. charge power	150kW	225kW
Max. discharge power	110kW	165kW
Max. charge current	187A	280A
Max. discharge current	183A	275A

General Information

Protection degree	IP20	IP20
Noise emission	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25 °C~+55 °C	-25 °C~+55 °C
Cooling method	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing
Max. altitude	6000m (derate over 3000m)	6000m (derate over 3000m)
Dimension (W/H/D)	1200/1900/800mm	1200/1900/800mm
Weight	948kg	1230kg
Build-in transformer	Yes	Yes
Lightning protection	Type II	Type II
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms
Standby consumption	<30W	<30W

Communication

Display	Touch screen	Touch screen
Communication	RS485/CAN	RS485/CAN

* The MPPT voltage of PV strings should be 50~200V higher than the Max battery voltage.