

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.

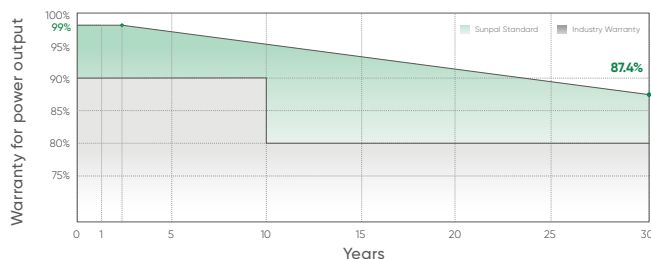
IEC TS 62941-2016/PV industry quality management system.

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

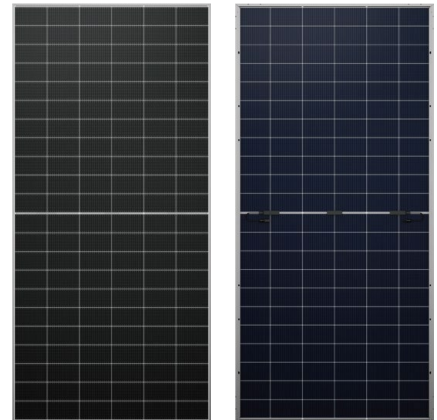
Temperature Characteristics

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

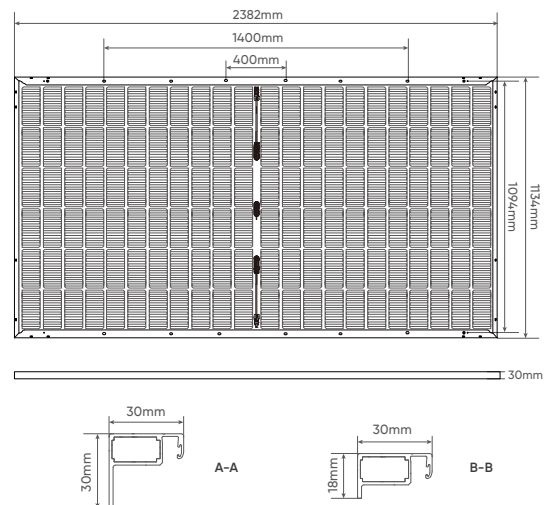
Maximum Rating

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

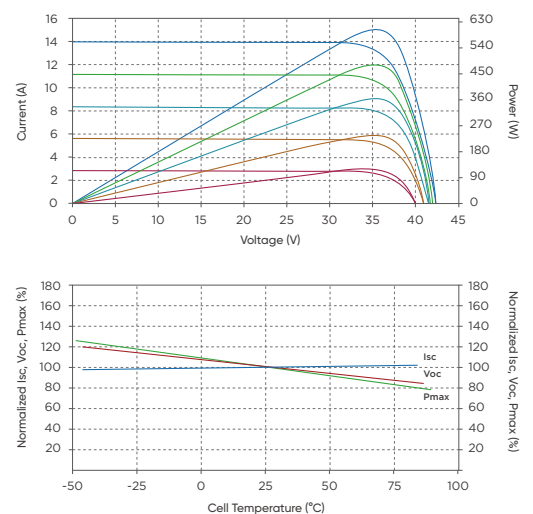
Product Image



Drawings



Characteristics (SP610M-66H-610W)



Three Phase Hybrid Inverter

SUN-60/70/75/80K-SG02HP3-EU-EM6



- 100** 100% unbalanced output
-  AC couple to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 160** Max. charging/discharging current of 160A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

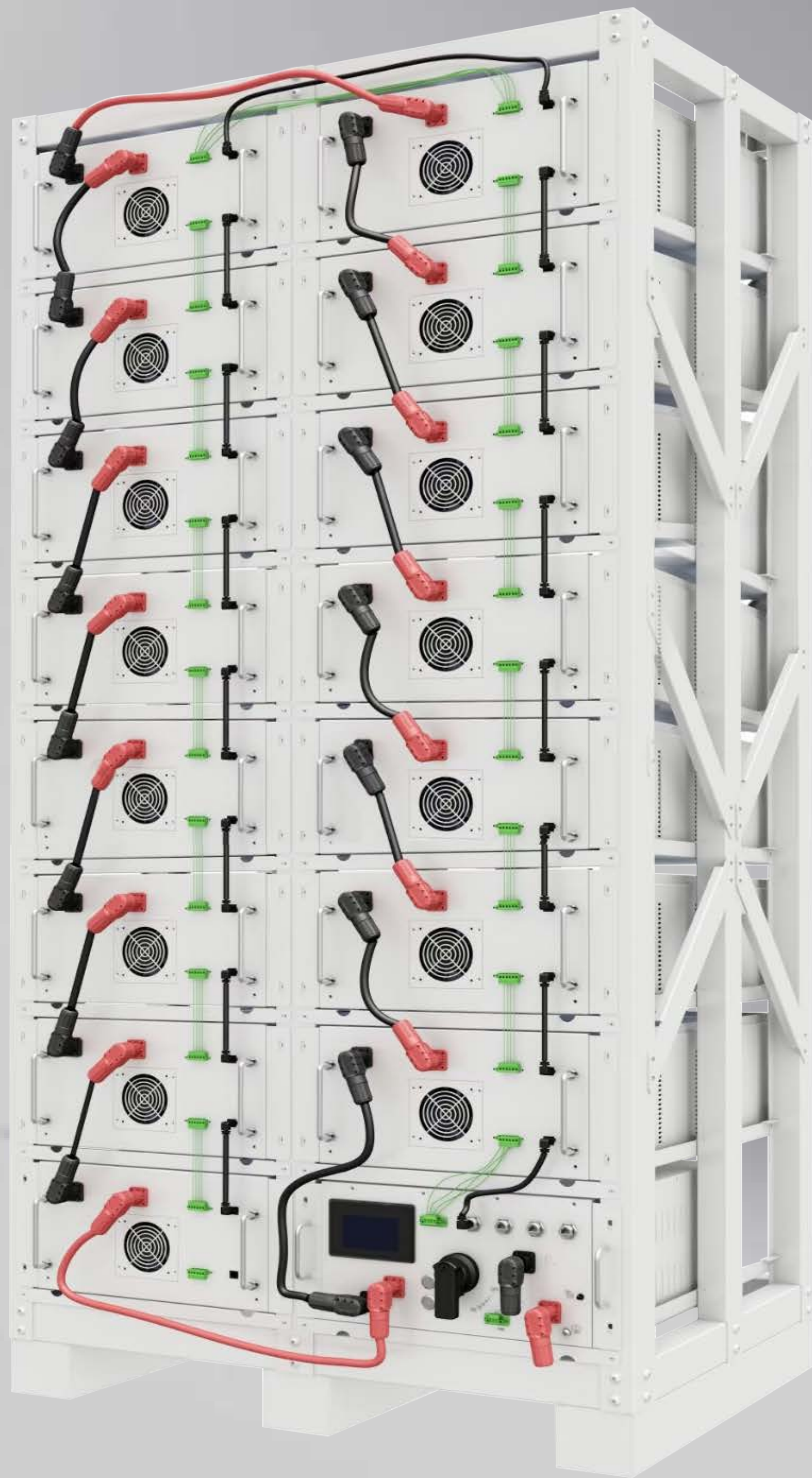
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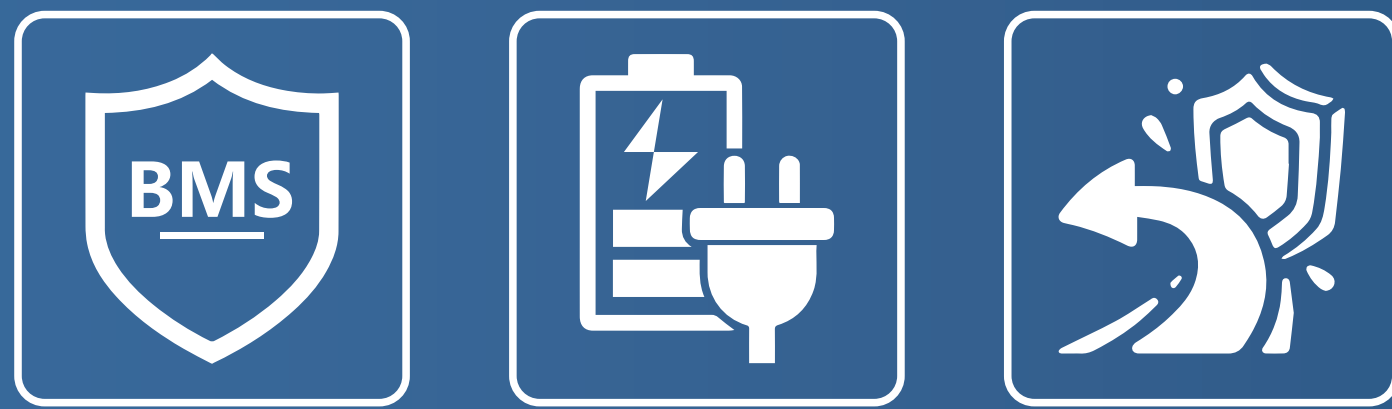
Model	SUN-60K-SG02HP3 -EU-EM6	SUN-70K-SG02HP3 -EU-EM6	SUN-75K-SG02HP3 -EU-EM6	SUN-80K-SG02HP3 -EU-EM6
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-1000			
Max. Charging Current (A)	80+80			
Max. Discharging Current (A)	80+80			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	2			
PV String Input Data				
Max. PV Access Power (W)	120000	140000	150000	160000
Max. PV Input Power (W)	96000	112000	120000	128000
Max. PV Input Voltage (V)	1000			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-850			
Rated PV Input Voltage (V)	650			
Max. Operating PV Input Current (A)	36+36+36+36+36+36			
Max. Input Short-Circuit Current (A)	54+54+54+54+54+54			
No. of MPP Trackers/ No. of Strings MPP Tracker	6/2+2+2+2+2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	60000	70000	75000	80000
Max. AC Input/Output Apparent Power (VA)	66000	77000	82500	88000
Rated AC Input/Output Current (A)	91/87	106.1/101.5	113.7/108.7	121.3/115.9
Max. AC Input/Output Current (A)	100/95.7	116.7/111.6	125/119.6	133.4/127.6
Max. Continuous AC Passthrough (grid to load) (A)	200			
Peak Power (off-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			
Efficiency				
Max. Efficiency	98.70%			
Euro Efficiency	98.10%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			
Noise (dB)	≤65			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	606×927×314 (Excluding Connectors and Brackets)			
Weight (kg)	105			
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			
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			

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°C			
Discharge Temperature	-10~60°C			

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 ...

