



A MASTER OF POWER

2022 VERSION

# PRODUCT CATALOG

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**Shenzhen Yima Power Supply Co.,Ltd**



# CAIALOG



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# COMPANY PROFILE

## SINCE 2017 Industrial Experience

Shenzhen Yima Power Supply Co., Ltd.(hereinafter referred to as "Yima") was established in 2017, the management has 12 years of experience in the lithium battery pack industry. Yima is mainly committed to the research and development, producing and sales of lithium-ion 18650/32650 LFP series cells and battery modules.

## ISO9001 Management System

Yima has passed the ISO9001 quality management system and ISO14001 environmental management system in 2021, and all products have passed CE, UL, ROHS, UN38.3, MSDS and other certifications.

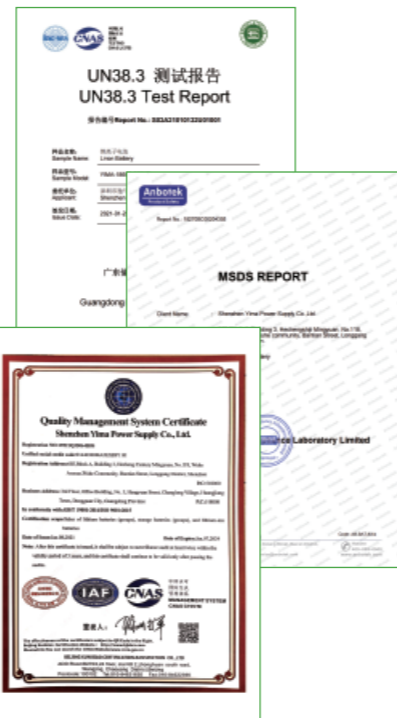


RoHS

R&D

Production

Sales



## Technical Team

Yima not only insists on the principle of quality first, but also insists on the concept of technology first, and has cultivated a technical team from BAK, ATL, Sunwoda, Central South University and other famous enterprises in the industry.



## Production Capacity

Yichun factory in Jiangxi province covers an area of 20,000m<sup>2</sup>, with 20 assembly lines and an annual capacity of 50,000 sets of household energy systems.

20,000+

20,000 square meters of new plant



## Corporate Mission

To provide users with a safe, lightweight and intelligent lithium battery system.





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## HOUSEHOLD ENERGY STORAGE SYSTEMS



### WALL SERIES Technical Specifications

Model	MP-5KW	MP-7KW	MP-10KW
Nominal Voltage	51.2V(16 series)		
Capacity	100Ah	150Ah	200Ah
Energy	5120Wh	7680Wh	10240Wh
Internal Resistance	≤30mΩ		
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C		≥4000 cycles @ 80% DOD, 40°C, 0.5C
Design Life	≥10 years		
Charge Cut-off Voltage	56.0V±0.5V		
Max. Continuous Work Current	100A/150A(Can choose)		
Discharge Cut-off Voltage	45V±0.2V		
Charge Temperature	0°C~60°C (Under 0°C extra heating mechanism)		
Discharge Temperature	-20°C~60°C (Under 0°Cwork with reduced capacity)		
Storage Temperature	-40°C~55°C @ 60%±25% relative humidity		
Dimensions	680 x485 x180(220)mm		
Weight	Approx 60kg	Approx 79kg	Approx 98kg
Protocol (optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter		
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)		



### BOX SERIES Technical Specifications

Model	MP-Box-15KW/LV	MP-Box-20KW/LV	MP-Box-25KW/LV	MP-Box-30KW/LV
Nominal Voltage	51.2V(16 series)	51.2V(16 series)	51.2V(16 series)	51.2V(16 series)
Capacity	300Ah	400Ah	500Ah	600Ah
Energy	15.36KWh	20.48KWh	25.6KWh	30.72KWh
Internal Resistance	≤30mΩ			
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C		≥4000 cycles @ 80% DOD, 40°C, 0.5C	
Design Life	≥10 years			
Charge Cut-off Voltage	56.0V±0.5V			
Max. Continuous Work Current	100A			
Discharge Cut-off Voltage	45V±0.2V			
Charge Temperature	0°C~60°C (Under 0°C extra heating mechanism)			
Discharge Temperature	-20°C~60°C (Under 0°Cwork with reduced capacity)			
Storage Temperature	-40°C~55°C @ 60%±25% relative humidity			
Dimensions	745*415*590 mm	930*415*590 mm	1120*415*590 mm	1300*415*590 mm
Weight	Approx 195kg	Approx 260kg	Approx 310kg	Approx 360kg
Protocol (optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter			
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)			





## BOX/HV SERIES Technical Specifications

Model	MP-BOX-15KW/HV	MP-BOX-20KW/HV	MP-BOX-25KW/HV	MP-BOX-30KW/HV
Nominal Voltage	153.6V(48 series)	204.8V(64 series)	256V(80 series)	307.2V(96 series)
Capacity	100Ah	100Ah	100Ah	100Ah
Energy	15.36KWh	20.48KWh	25.6KWh	30.72KWh
Internal Resistance	≤80mΩ	≤100mΩ	≤120mΩ	≤150mΩ
Cycle Life	≥5000 cycles @ 80% DOD, 25°C , 0.5C		≥4000 cycles @ 80% DOD, 40°C , 0.5C	
Design Life	≥10 years			
Charge Cut-off Voltage	168V±0.5V	228V±0.5V	284V±0.5V	340V±0.5V
Max. Continuous Work Current	100A			
Discharge Cut-off Voltage	135V±0.5V	180V±0.5V	225V±0.5V	270V±0.5V
Charge Temperature	0°C~60°C (Under 0°C extra heating mechanism)			
Discharge Temperature	-20°C~60°C (Under 0°Cwork with reduced capacity)			
Storage Temperature	-40°C~55°C @ 60%±25% relative humidity			
Dimensions	745*415*590 mm	930*415*590 mm	1120*415*590 mm	1300*415*590 mm
Weight	Approx 195kg	Approx 260kg	Approx 310kg	Approx 360kg
Protocol (optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter			
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)			



## RACK/SERIES Technical Specifications

Model	MP-RACK-48600	MP-RACK-48800	MP-RACK-481000	MP-RACK-481200	MP-RACK-481400	MP-RACK-481600
Nominal Voltage	48V/51.2V(optional)					
Capacity	600Ah	800Ah	1000Ah	1200Ah	1400Ah	1600Ah
Energy	30KWh	40KWh	50KWh	60KWh	70KWh	80KWh
Internal Resistance	≤60mΩ					
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C			≥4000 cycles @ 80% DOD, 40°C, 0.5C		
Design Life	≥10 years					
Charge Cut-off Voltage	53V ±0.5V(15S) ; 56.0V±0.5V(16S)					
Max. Continuous Work Current	200A	300A	400A	400A	400A	400A
Discharge Cut-off Voltage	45V±1.0V(15S) ; 48V±1.0V(16S)					
Charge Temperature	0°C~60°C (Under 0°C extra heating mechanism)					
Discharge Temperature	-20°C~60°C (Under 0°Cwork with reduced capacity)					
Storage Temperature	-40°C~55°C @ 60%±25% relative humidity					
Dimensions	600*600*988 mm	600*600*1166 mm	600*600*1388 mm	600*600*1610 mm	600*600*1833 mm	600*600*2055 mm
Weight	Approx 350kg	Approx 460kg	Approx 570kg	Approx 680kg	Approx 780kg	Approx 900kg
Protocol (optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter					
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)					





## ALL-IN-ONE SERIES (EU) Technical Specifications

Model : MP5510-EY1A1 / MP 5520-EY1A1

### Inverter

Maximum PV Input Power	6500W
Rated Output Power	5500W
Maximum Charging Power	2880W

### PV INPUT(DC)

Nominal DC Voltage/ Maximum DC Voltage	360V DC/ 500V DC
Start-Up Voltage / Initial Feeding Voltage	116VDC/ 150VDC
MPP Voltage Range	120VDC~450VDC
Number of MPP Trackers/ Maximum Input Current	2/2x13A

### GRIDOUTPUT (AC)

Nominal Output Voltage	208/220/230/240VAC
Output Voltage Range	184- 264.5VAC*
Maximum Output Current	23.9A*
Maximum Conversion Efficiency(DC/ AC)	96%
European Efficiency@Vnominal	95%

### ACINPUT

AC Start-Up Voltage/ Auto Restart Voltage	120- 140V AC/ 180V AC
Acceptable Input Voltage Range	170- 280V AC
Maximum AC Input Current	40A

### BATTERY MODE OUTPUT(AC)

Nominal Output Voltage	208/ 220/ 230/ 240V AC	
Efficiency(DC to AC)	93%	

### BATTERY Technical Specifications

Nominal DC Voltage	51.2V DC	
Battery Capacity	200Ah	400Ah
Maximum Charging Current	100A	200A
Dimension, DxWxH(mm)	214x621x500(cell)	
Net Weight(kg)	103	206
Energy	10.24KWh	20.48KWh
Nominal Voltage	51.2V DC	
Full Charge Voltage(FC)	56V	
Full Discharge Voltage(FD)	45V	
Maximum Continuous Discharging Current	100A	200A
Maximum Discharging Current	120A at 1min	240A at 1min
Protection	BMS, Breaker	
Standard Charge Method	0.2C CC(Constant Current) charge to FC,CV (Constant Voltage FC) charge till charge current decline to<0.05C	
Inner Resistance	<20m Ohm	



## ALL-IN-ONE SERIES (US) Technical Specifications

Model : MP 8020-UF1A1

### Efficiency

Max Efficiency	≥ 98%
CEC Efficiency	≥ 97%

### On Grid AC Output

Rate AC Output Power	8KVA
AC Output Voltage	120/240Vac(split phase), 208Vac(2/3 phase), 230Vac(single phase)
AC Output Frenquecny	50/60Hz
Grid Type	Split phase. 2/3 phase. Single Phase
Max Output Current	38.3A
Output Voltage Range	184- 264.5VAC*
AC Reverse Charging	Yes
PF	-0.8leading~+0.8lagging
Output THDI	< 2%

### PV Input

PV input power	12KW
MPPT Number	4
PV voltage range	350V/85V- 500V
MPPT voltage range	120V-500V
Single MPPT input current	12A

### Battery

Nominal Voltage	51.2V
Full Charge Voltage(FC)	56V
Full Discharge Voltage(FD)	45V
Typical Capacity	400Ah
Maximum Continuous Discharging Current	190A
Maximum Discharging Current	190A
Protection	BMS,Breaker
Inner Resistance	20m ohm

### General Data

Operation Temperatu rerange	-25 ~ +60Centigrade scale
Environment humidity	0-95%
Altitude	0~4000M over 2000M derating

### System parameters

Dimension,DxWxH (mm)	650*542*1970
Net Weight (kg)	340
IP rank	IP54