

# YOUR FLEXIBLE & STACKABLE STANDALONE POWER SUPPLY

## BATTERY RACK & BATTERY PACK






### Product Topology



### Applications

Small businesses, electric tricycles, agricultural and industrial transportation, intelligent optical storage and charging stations, off-grid areas.

### Features

-  **Lower electricity cost**  
Peak load shifting brings in a price difference income given charging at the valley and discharging at the peak.
-  **Power supply in off-grid areas**  
Helps to meet power demand in areas free or shortage of electricity.
-  **Higher transport capacity**  
Helps to optimize transport tools, cut down labor cost, improve work efficiency and increase income.
-  **Solar energy storage**  
Renewable energy power generation equipment, such as solar energy, is used to provide electricity for charging stations and store electric energy to ensure power supply.
-  **The energy management system**  
Helps to realize solar energy storage and charging, peak load shifting, renewable energy power generation, mobile emergency standby power supply, power supply, etc.

# YOUR FLEXIBLE & STACKABLE STANDALONE POWER SUPPLY BATTERY RACK

## Specifications

Product Name		Battery Rack-5kW	Battery Rack-10kW
			
<b>Inverter Output</b>			
Rated Power	kW	5	10
Efficiency		94% (Peak value)	
Output Voltage	Vac	220/230/240 (±2%)	
Output Frequency Range	Hz	50±0.5	
Output Waveform		Pure Sine Wave	
Output waveform distortion		≤3% (Linear load)	
<b>Battery</b>			
Nominal Capacity	kWh	5.12/10.24/15.36/20.48/25.6 (1~5 battery packs)	
Max. Charge&Discharge Current	A	60 (1 battery pack)/100 (2~5 battery packs)	
<b>PV</b>			
Working Mode		MPPT	
MPPT Tracking Voltage Range	Vdc	120~450	
Rated Operating Voltage of PV Array	Vdc	360	
Max. PV Input Voltage Voc	Vdc	500	
Max. PV Array Power	kW	6	6*2
MPPT Tracking Channels		1	2
<b>AC Input</b>			
Rated Input Grid Voltage	Vac	220/230/240	
Input Grid Voltage Range	Vac	170~280 (UPS)/120~280 (INV)	
Input Grid Frequency Range	Hz	45~55 (50Hz)/55~65 (60Hz)	
<b>General</b>			
Software System		EMS (Android)	
Screen Type		Touch screen	
Screen Size	Inch	7	
Communication Mode		RS485+WIFI+RJ45(Supporting Modbus, LoRa/4G/5G module)	
Operating Temperature	°C	-10~50	
Storage Temperature		-15~50	
Noise	dB	≤55	
Cooling Mode		Air cooling	
Allowable Highest Altitude	m	2000	
Ambient Humidity		0%~95% non-condensing	
Protection Level		IP21	

# YOUR FLEXIBLE & STACKABLE STANDALONE POWER SUPPLY BATTERY PACK



## Specifications

Product Name		Battery Pack
Nominal Capacity	kWh	5.12
Max. Charge&Discharge Current	A	60
Battery Type		LFP
Nominal Voltage	Vdc	48
Charge Voltage Range	Vdc	42~60
Single Battery Cell Capacity	Ah	100
Charge Temperature	°C	0 to 40
Discharge Temperature	°C	-10 to 40
Storage Temperature	°C	-15 to 50
Allowable Highest Altitude	m	2000
Ambient Humidity		0%~90% non-condensing
Communication Mode		RS485
Protection Level		IP54
Weight	kg	55±2
Dimensions (L×W×H)	mm	540×495×215 (±1.5%)

# YOUR FLEXIBLE & STACKABLE STANDALONE POWER SUPPLY ELECTRICAL TRICYCLE



## Specifications

Product Name		Electrical Tricycle-Hamba
Battery Rated Voltage		48V
Motor		1200W (48V/60V, sine wave)
Max Speed	km/h	35
Controller		24 pipes support one-line connection
Dashboard		LED
Headlight		LED
Rear Axle		160 dual-drive
Suspension System		Front hydraulic suspension and rear spring suspension
Safe Belt for Driver		Yes
Folding Seat for Load Compartment		Yes
Brake System		Drum brake
Gear System		Gear: Adjustable buttons 1, 2, 3 (no need for two-speed gears); with P gear, forward and reverse gears
Load Capacity	kg	400
Wheelbase	mm	1955
Rear Wheel Track	mm	865
Load Compartment Size	mm	1500*1000