

UPower SERIES

Inverter/Charger



Product models

UP1500-M3222 UP2000-M3322
UP3000-M3322 UP3000-M2142

Features



The UPower series is a new type of the inverter/ charger combining with solar & utility charging and AC output, which adopts a multi-core processor design and advanced MPPT control algorithm, and has the features of high response speed, high reliability and high industrialization standard. It offers four charging modes to Solar priority, Utility priority, Solar and Utility & Solar; two output modes for Battery and Utility, meeting the various application demands.

- Adoption of the advanced SPWM technology, with pure sine wave output
- Fully digitalized voltage and current double closed-loop control
- Advanced MPPT technology, with efficiency no less than 99.5%.
- Four charging mode: Solar priority, Utility priority, Utility & solar and Solar
- LCD design that enables dynamic display of system running data and operating state

- Two OUTPUT mode: Battery and Utility
- Provided with common interface and advanced interface
- Multiple LED indicators that instantly indicate the operating state of the system
- 2P circuit breaker provided at the utility input end
- Independent control of AC output with AC OUT button
- Battery temperature compensation function.
- Extensive Electronic protection

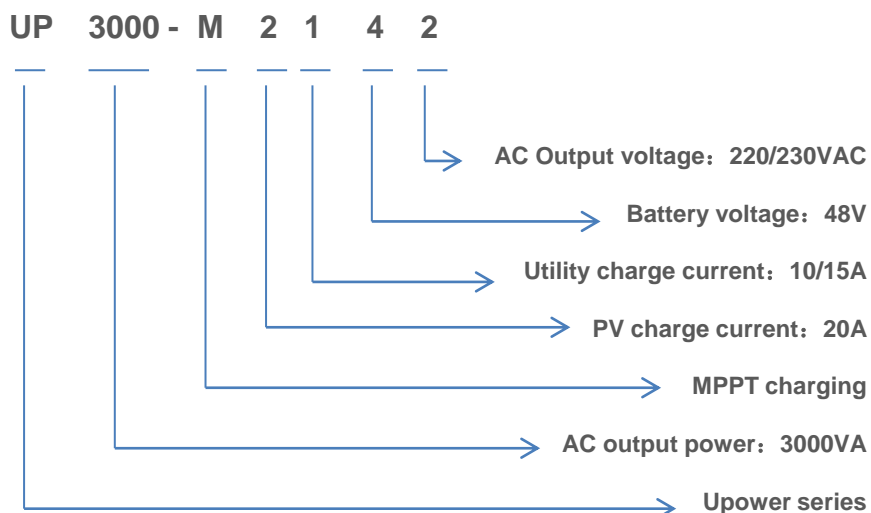
Protection function

- PV Over Current protection
- PV Reverse Polarity protection
- Utility input overvoltage protection
- Utility input under voltage protection
- Load Short Circuit protection
- Device overheating protection
- PV short circuit protection
- Night Reverse Charging protection
- Battery overvoltage protection
- Battery Over Discharge protection
- Load Overload protection

Product naming rule



48V,20A



Two OUTPUT mode:

Utility;
Battery;

Four charging mode:

Solar priority;
Utility priority;
Utility&Solar
Solar;



Note:When the battery voltage is lower than “Restore Auxiliary Module Charging Voltage(V_{AON})”, the utility starts charging. When the battery voltage reaches to “Stop Auxiliary Module Charging Voltage (V_{AOF})”, the utility stops charging.

When the battery voltage is lower than “Restore Auxiliary Module Charging Voltage (V_{AON})”, the solar starts charging. When the battery voltage reaches to “Stop Auxiliary Module Charging Voltage(V_{AOF})”, the solar stops charging.

Electrical parameters

Item	UP1500-M3222	UP2000-M3322	UP3000-M3322	UP3000-M2142
System battery voltage	24VDC			48VDC
Battery input voltage range	21.6~31.9VDC			43.2~63.9VDC

Item	UP1500-M3222	UP2000-M3322	UP3000-M3322	UP3000-M2142
Output rated power	1200W	1600W	2400W	2400W
Output power (15min.)	1500W	2000W	3000W	3000W
Overload power(5s)	2400W	3200W	4800W	4800W
Max. surge power	3000W	4000W	6000W	6000W
Output voltage range	220VAC ± 3%			
Output frequency	50HZ/60HZ			
Output wave	Pure Sine Wave			
Power factor	0.8			
Distortion THD	≤3% (24V or 48V resistive load)			
Inverter efficiency	≤95%			
Utility input voltage range	170VAC~275VAC			
Utility charge current	20A	30A	30A	15A
Transfer time	20mS			
Max. PV open circuit voltage	100V★ 92V◆			150V★ 138V◆
Max. PV input power	780W	780W	780W	1040W
PV charging current	30A	30A	30A	20A
Equalization voltage	29.2V			58.4V
Boost voltage	28.8V			57.6V
Float voltage	27.6V			55.2V
Tracking efficiency	≤99.5%			
Charging conversion efficiency	≤98%			
Temperature compensate coefficient	-3mV/°C/2V (Default)			
Self-consumption	≤0.6A	≤0.8A	≤0.8A	≤0.6A
Enclosure	IP30			
Relative humidity	< 95%(N.C.)			
Working environment temperature	-20°C~50°C (100% input and output)			
Dimension	386×300×126mm	444×300×126mm		
Mounting dimension	230mm			
Mounting hole size	Φ8mm			

★ At minimum operating environment temperature.

◆ At 25°C environment temperature.



BEIJING EPSOLAR TECHNOLOGY CO.,LTD.

BLDG#18,CO.PARK,NO.8 HEYING ROAD,

CHANGPING DISTRICT,BEIJING,CHINA 102200

Tel: 010-82894856 / 82894896 Fax: 010-82894882

www.epever.com.