

UPower Inverter/Charger

1000-5000W,12/24/48VDC



Overview:

UPower series is an inverter/charger with power from 1KVA to 5KVA, which combines MPPT solar charge controller, pure sine wave inverter, and AC/DC charger in one unit. The inverter and AC/DC charger can work simultaneously, makes UPower perfectly suits residential applications, schools, cottages and the area where the electricity is not stable or the applications that need uninterruptible power.

Features:

- *A new type of all-digital intelligent energy storage and management Inverter/charger
- *MPPT technology, Max. tracking efficiency 99.5 %, Max. DC-DC conversion efficiency 98.5 %
- *Advanced all-digital control technology for AC-DC charging modules
- *SPWM technology, with high efficiency up to 95 %
- *With the function of Utility & Solar charging ratio selection, and total charging current setting
- *Four charging mode and two output mode
- *Rich set of options
- *RS485 isolated communication interface with standard Modbus protocol
- *Extensive electronic protections
- *Variety of accessories can be selected according to user's requirements

Specifications

Model	UP1000-M3212	UP1000-M3222	UP1500-M3222	UP2000-M3322	UP3000-M3322	UP3000-M6322
Nominal battery voltage	12VDC	24VDC				
Battery input voltage range	10.8~16VDC	21.6~32VDC				
Inverter output						
Continuous output power	800W	800W	1200W	1600W	2400W	2400W
Output power 15min.	1000W	1000W	1500W	2000W	3000W	3000W
Output voltage range	220V(-6%~+5%) 230V(-10%~+5%)	220V±5%;230V(-10%~+5%)				
Output frequency	50/60±0.1Hz					
Output mode	Single phase					
Output wave	Pure Sine Wave					
Distortion THD	≤3%(12V or 24V resistive load)					
Max. efficiency	91%	94%	95%			
Utility charging						
Utility input voltage range	160VAC~280VAC(Working voltage range);170VAC~270VAC(Utility starting voltage range)					
Max. utility charge current	20A	20A	20A	30A	30A	30A
Solar charging						
Max. PV open circuit voltage	60V(At minimum temperature) 46V(25°C)	100V(At minimum temperature) 92V(25°C)			150V(At minimum temperature) 138V(25°C)	
Max. PV input power	390W	780W	780W	780W	780W	1500W
Max. PV charging current	30A	30A	30A	30A	30A	60A
Equalization voltage	Sealed:14.6V,Flooded:14.8V	Sealed:29.2V,Flooded:29.6V				
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V	Gel:28.4V,Sealed:28.8V,Flooded:29.2V				
Float voltage	Gel/Sealed/Flooded:13.8V	Gel/Sealed/Flooded:27.6V				
Tracking efficiency	≤99.5%					
Charging conversion efficiency	≤98%					
Temperature compensation	-3mV/°C/2V(Default)					
Others						
No load consumption	≤1.2A	≤0.6A	≤0.6A	≤0.8A	≤0.8A	≤0.8A
Enclosure	IP30					
Operating temperature range	-20°C~50°C (full input and output with no derating)					
Dimensions(HxWxL)(mm)	386×300×126			444×300×126		518×310×168
Weight	7.3kg	7.3kg	7.4kg	8.5kg	9.2kg	14.9kg