UP

Bi-direnctional Battery Inverter

NEW

• Features

- Built-in EMS achieves high efficient utilization of power energy between the grid and battery.
- Reservation mode allows users to set up time for charging and discharging (peak shaving function).
- Switch time <8 ms (to off grid mode) .
- Can be used in single /dual/ three phase grid structures.
- On-grid mode and off grid mode selectable .
- Max efficiency 95%, THD<5% under full load.
- Battery charging voltage and charging current programmable.
- Friendly HMI allows user configuration.

• Applications

On&off-grid

Peak & Valley Reduction

Back-up power

• Technical Parameter

UP Series Bi-directional Battery Inverter/Charger		
Model	UP 5048E	UP 6048E
Battery		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range	40~60V	
Max.Charge/Discharge Current	100A	
Charging Curve	3 Stages	
Charging Voltage	Depends On Battery Type(Schedule 1)	
Output AC (Back Up)		
Rated Output Power	5000W	6000W
Max.AC Output Power	5500W	6600W
Back Up Switch Time	<10ms	
Rated output voltage	230V (Single Phase)	
Rated frequency	50Hz	
Rated output current	22.7A	27.3A
Input Voltage Waveform	Sine Wave	
THDv(@linear load)	2%	
No load loss	<50W	
Output AC(Grid side)		
Rated Output Power	5000W	6000W
Max. AC Output Power	5500W	6600W
Rated grid voltage	230V(177~267V/90~267V) (Single Phase)	
Rated grid frequency	50Hz/60Hz (47Hz~55Hz/57Hz ~65Hz)	
Rated output current	22.7A	27.3A
Power Factor	>0.95	
THDi	<5%	
Efficiency		
Max.efficiency	95%	
Protection		
Anti islanding Protection	Integrated	
Insulation Resistor Detection	Integrated	
Output Over Current Protection	Integrated	
Output Over Voltage Protection	Integrated	
Over temperature protection	Integrated	
Surge protection	Integrated	

General Data	
Display	LED+LCD
Communication	RS485/CAN
Dimensions (W*H*D)	370*531*168mm
Weight	16kg
Installation Style	Rack/Wall Mounted
Topology	Transformer Isolation
Operating Temperature Range	-20~60℃（Derating Treatment Is Required If The Radiator Is Above 80℃）。
Humidity	0%~95%Relative Humidity (No Condensation)
Cooling	Intelligent Air Cooling
Protection Degree	IP20
Max. operation altitude	2000m(>2000m Derating)
Warranty	1Year

*** Schedule 1: Battery type and charging voltage**

Battery Type	Boost/Vdc	Float/Vdc
Gel USA	56Vdc	54.8Vdc
AGM 1	56.4Vdc	53.6Vdc
LiFePO4_LF14	57.6Vdc	54.4Vdc
MnNiCo_N14	54.8Vdc	54.8Vdc
Custom	Set The Information According To The Specification Of The Battery	