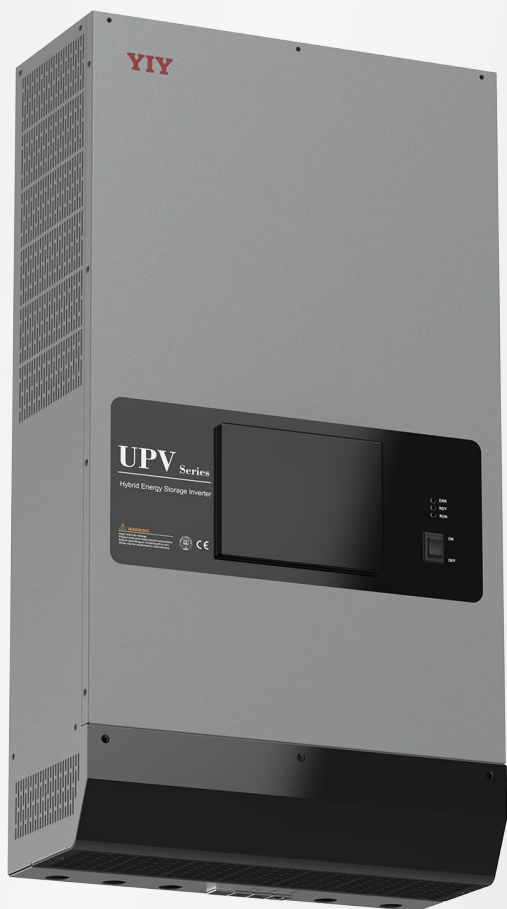


UPV

Hybrid Energy Storage Inverter

NEW



• Features

- Built-in EMS achieves high efficient utilization of power energy among the grid, battery and solar.
- Reservation mode allows users to set up time for charging and discharging(peak shaving function).
- Switch time <math>< 8\text{ ms}</math> (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<math>< 5\%</math> under full load .
- Battery charging voltage and charging current programmable .
- Friendly HMI allows user configuration.

• Applications



On&off-grid



PV generation



Peak & Valley
Reduction



Back-up power

• Technical Parameter

UPV Series Hybrid Energy Storage Inverter		
Model	UPV 5048E	UPV 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)	
Input DC(PV Side)		
Recommended Max.PV Power	3kW	
Rated Voltage Range	60~200V	
Max.Input Voltage	200V	
Start Up Voltage	75V	
MPPT Voltage Range	75~170V	
Max.Input Current	60A	
No.Of MPPT Trackers No.Of Strings Per MPPT Tracker	1	
PV Module Efficiency	≥99.6%	
Output AC(Back Up)		
Rated Output Power	5000W	6000W
Max.AC Output Power	5500W	6600W
Back Up Switch Time	<8ms	
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	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Output Over Current Protection	Integrated	
Output Over Voltage Protection	Integrated	
Overtemperature protection	Integrated	
Surge protection	Integrated	
General Data		
Display	LED+LCD	
Communication	RS485/CAN	
Dimensions (W*H*D)	370*706*168mm	
Weight	16kg	
Installation Style	Rack/Wall Mounted	
Topology	Transformer Isolation	
Operating Temperature Range	-20~60°C (Derating Treatment Is Required If The Radiator Is Above 80°C)	
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	