



MPPT Series Solar off grid Inverter PV Controller & Inverter Integrated

Main characteristics

- (1) Using MPPT (Maximum Power Point Tracking) algorithm makes full use of solar photovoltaic energy.
- (2) Three-stage charging (constant current, constant voltage, float charge), effectively extending the battery life.
- (3) Capacity of the battery depending on the configuration, to automatically adjust the battery charging current.
- (4) Pure sine wave output, enough power output.
- (5) Closed loop PID algorithm, improved the dynamic response of system output, and the quality of power output.
- (6) LCD display interface can real-time monitor the parameters of battery voltage, load current, temperature inside, AC output voltage, AC output current etc.
- (7) Protection function: output overload protection, output short circuit protection, reverse polarity protection, input over voltage,

over temperature protection and series of alarm and protection functions

(8) Transient response, waveform distortion, high efficiency, output voltage stable, with excellent EMI performance.

(9) Strong load capacity, in addition to drive all kinds of resistive load, but also all kinds of perceptual load type equipment, such as motors, air conditioning, electric drills, gas lamps etc; you can almost all load.

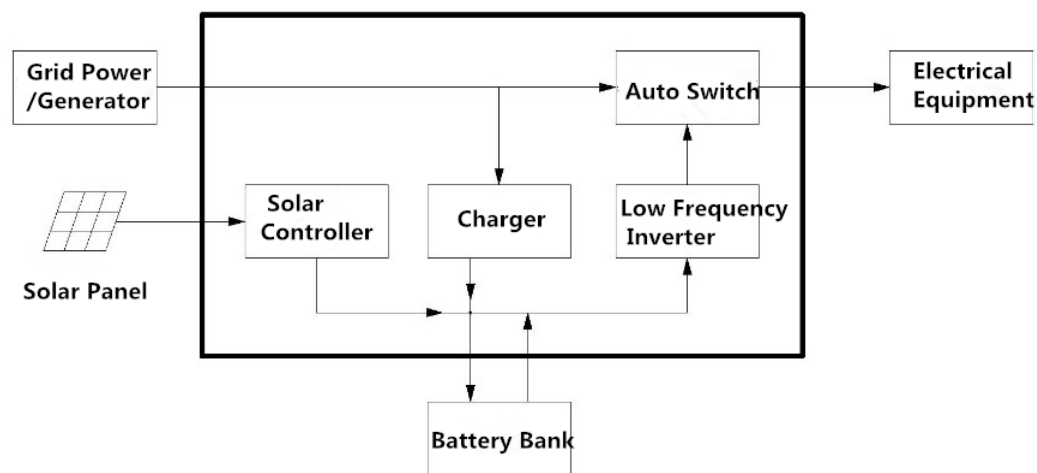
(10) Installation and maintenance easy and fast, to meet indoor and outdoor installation requirements.

(11) Intelligent empty load automatic sleep function.

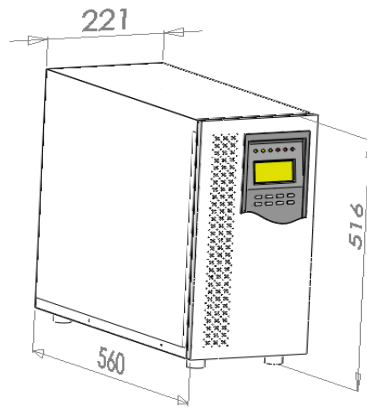
(12) Using the battery or Grid priority can be flexibly adjusted.

(13) Remote monitoring via GPRS (Selectable)

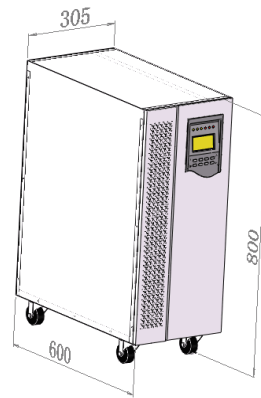
Working Principle



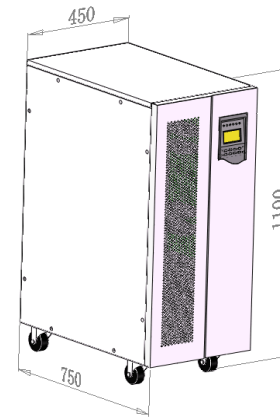
Display and function instruction



3-5K overall dimensions

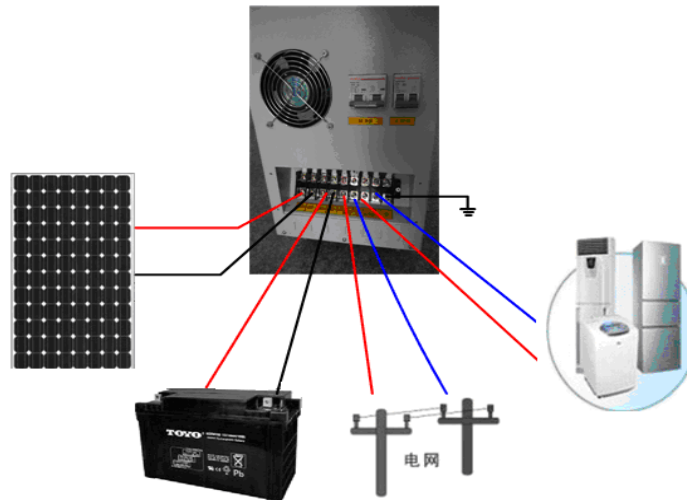


5-15K overall dimensions



20-30K overall dimensions

Connection diagram



Technical parameters

Rated capacity		5-8KVA	5-8KVA	5-15KVA	5-15KVA	20-30KVA
Battery						
Rated Voltage(VDC)		96	110	192	220	240
Low voltage protective value(VDC)		86.4	97.2	172.8	194.4	216.0
Low voltage recovery value(VDC)		104.0	117.0	208.0	234.0	260.0
Over voltage protective value(VDC)		124.0	139.5	248.0	279.0	310.0
Over voltage recovery value(VDC)		120.0	135.0	240.0	270.0	300.0
PV input						
Max input power(kWp)		5.7	6.4	11.4	12.8	14.2/28.4
Max charge current(A)		50				50/100
Start voltage(VDC)		120	130	240	270	300
MPPT work range(VDC)		110-280	120-280	230-450	260-450	290-450
Max input PV voltage (VDC)		300	300	480	480	480
Float charge Voltage(VDC)	Settable	108.0	121.5	216.0	243.0	270.0
Bulk charge Voltage(VDC)		113.6	127.8	227.2	255.6	284.0
Mains bypass(Optional)						
Input voltage range(Vac)		110/220/230/240±15%(Special voltage can be customized)				
Input frequency(Hz)		50/60±3%				
AC charging current		Optional				
AC output						
Output wave		L+N, Pure sine wave				
Output voltage(Vac)		110/220/230/240±1%(optional)				
Output frequency(Hz)		50/60±1%				
Output (THD)		≤2% (linear load)				

Inverter efficiency (80% line load)	≥85%		
Current peak factor	3:1		
Over load ability	105-110%, 600s; 110-125%, 60s; >125%, 1s		
Display	LCD+LED		
Protection	Input inverse polarity protection, input under-voltage protection, input overvoltage protection, output overload protection, output short circuit protection(need to restart machine because of No automatic recovery)、overheat protection.		
Communication	RS485 /GPRS(optional)		
Ambient environment			
Protection degree	IP20		
Applied altitude(m)	≤5000(1000 meters above derating)		
Permissible relative humidity	<95% (No condensation)		
Environment temperature(°C)	-10~+50		
Noise (1 meter)	≤50dB		
Size and weight			
D*W*H(mm)	600*305*800		750*450*1100
Weight(Kg)	80-85	80-95	120-140

Above information is just for reference, no inform if there is any change. Special voltage can be customized.