



## ALL IN ONE

### Inverter / Charger / LiFePO<sub>4</sub> Battery / AVR

#### Key performance characteristics:

- Pure sine wave output.
- Inbuilt LiFePO<sub>4</sub> battery with BMS (Scalable).
- 8 to 10 ms typical transfer time
- Automatic Voltage Regulator (AVR function)
- Suitable for mains power unstable or often off, and important equipment that requires backup power.
- Overload: 110% @ 60 s and 130% @ 10 s
- This product adopts high-precision DSP control chip, precise detection circuit, advanced control technology.
- Intelligent temperature-regulating fan, efficient heat dissipation, extend system life.
- Easy to install
- 3 positions selector (bypass) inbuilt.
- Multiple working mode options
- Multiple electronic protections: short circuit protection, overvoltage and under voltage protection, overload protection, Overheat / short circuit automatic restart (automatic restart three times).
- Wide frequency and wide voltage input, can be used for diesel / gasoline generator input.
- 3-Stage battery charger with configurable charging current
- 8 Pre-Set battery voltages including Lithium; User-defined option.
- Extra battery for more autonomy (OPTIONAL)
- MPPT charge controller inbuilt (OPTIONAL)
- WiFi Plug (OPTIONAL).

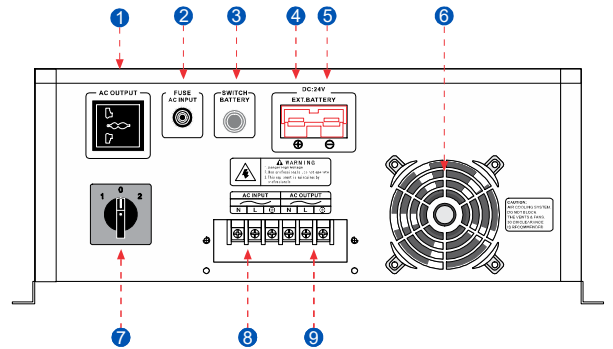
**Outward appearance**

Front panel



**Inverter charger with inbuilt LiFePO4 battery**

Bottom panel system



- |                                      |                      |
|--------------------------------------|----------------------|
| ① AC output socket                   | ⑥ Fan                |
| ② AC input Fuse                      | ⑦ Selector switch    |
| ③ Battery switch                     | ⑧ AC Input terminal  |
| ④ External Battery positive terminal | ⑨ AC Output terminal |
| ⑤ External Battery negative terminal | ⑩ Control display    |



**External Extra Battery Pack for more autonomy**  
**OPTIONAL**

Technical characteristics						
Model	1000W		1500W		2500W	
Surge Power (1 second)	3000W		4500W		7500W	
Surge Power (10 seconds)	1300W		1950W		3250W	
Surge Power(60seconds)	1100W		1650W		7550W	
Commercial Power Range	110VAC,115VAC,120VAC,					
AC Frequency Range	45-65HZ					
AVR Voltage Range(VAC)	110VDC,115VAC120VAC ±10% (Auto-sensing)					
Output Frequency Range(AC mode)	Tracking automatically /shared frequency with the commercial inversion state:60/50±0.5 Hz					
DC Voltage Input	12VDC		24VDC			
Input Wave Form	Sine Wave ( Utility or Generator )					
Output Wave Form	Pure Sine Wave					
Output Overload	105% < Load < 110% ± 10% : Fault ( Turn off output after 60 seconds) 110% < Load < 130% ± 10% : Fault ( Turn off output after10 seconds) 150% < Load ± 10% : Fault ( Turn off output after 1 seconds)					
Thermal Method	cooling fan in intelligent control is≤42 °C, fan rotates slowly to ≥ 45 °C or the load is ≥ 50%, and the fan rotates fast					
Communication port	RS485/WIFI (Optional)					
temperature	-10°C ~+50°C					
Humidity	10%~90%					
Short Circuit Protection	Software Protection					
Line Mode Efficiency	> 95%					
Optimal Efficiency	>85%					
Inbuilt Battery with BMS	LiFePO4 12VDC-100Ah		LiFePO4 24VDC-100Ah			
MPPT Charge controller	30 A (Optional)		50 A (Optional)			
DC Battery specifications						
Model	1000W		1500W		3500W	
AC Charging( Max)	12VDC	30A		-		
	24VDC	-		30A		
	48VDC	-		30A		
Battery Type	LiFePO4					
Input Voltage Range	12VDC:10.5-15V		24VDC:21-30V			
Floating Charge Set	12VDC:12.9 ~ 13.6 V		24VDC:25.8 ~ 27.2V			
Low Voltage Restored	12VDC:12.6-14.4V		24VDC:25.2-28.8V			
Low Voltage Shutdown set	12VDC:10-10.9V		24VDC:20-21.8V			
Over Voltage Protection	12VDC:16.7V		24VDC:33.4V			
Over Voltage Alarm	12VDC:15V		24VDC:30 V			
Dimensions	39x46.5x19 cms		43.5x46.5x22 cms			
Weight	60 lbs		80 lbs		90 lbs	

NOTE: specifications may change without previous notice.