

Long Back Up UPS Series

All in One inverter/charger/battery

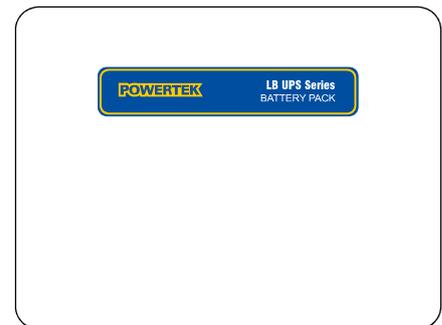


Key performance characteristics:

- Pure sine wave output.
- Inbuilt LiFePO4 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.
- 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.
- MPPT charge controller inbuilt (OPTIONAL)
- WiFi Plug (OPTIONAL)



Inverter charger with inbuilt LiFePO4 battery



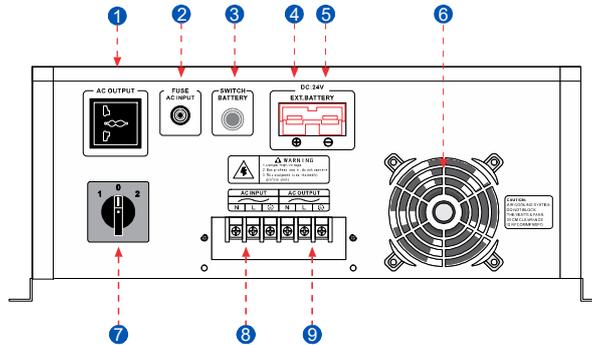
**External Extra Battery Pack for more autonomy
OPTIONAL**

Other applications



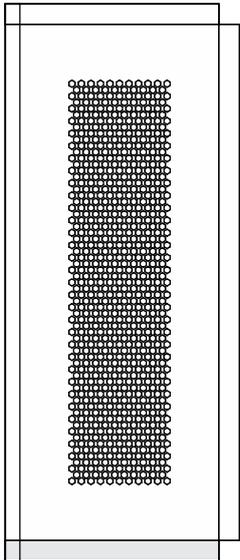
Outward appearance

Bottom panel system

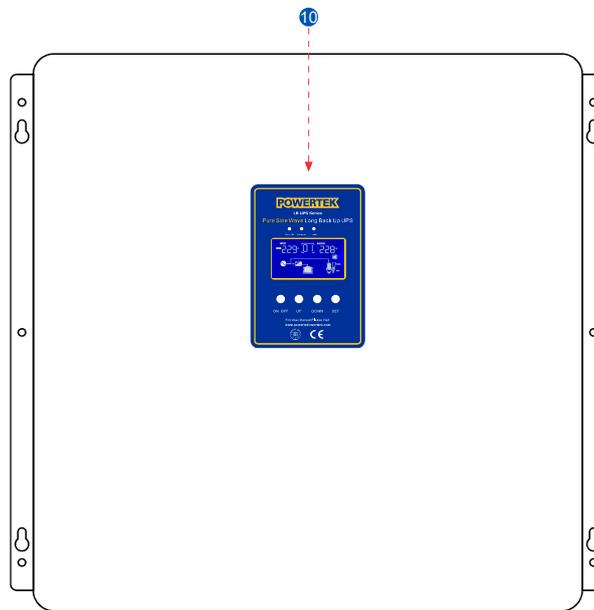


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|--------------------------------------|----------------------|
| ① AC output socket | ⑥ Fan |
| ② AC input Fuse | ⑦ Selector switch |
| ③ Battery switch | ⑧ AC Input terminal |
| ④ External Battery positive terminal | ⑨ AC Output terminal |
| ⑤ External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

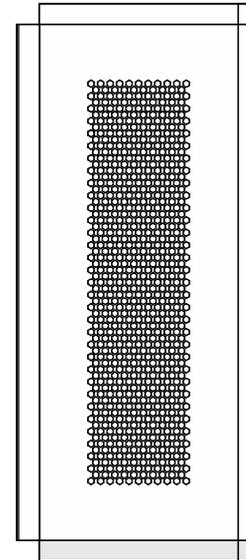
Left side panel



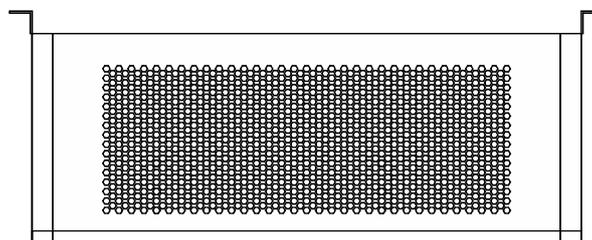
Front panel



Right side panel



Top side panel



Specifications		
Model	1000W	1500W
Surge Power (1 second)	3000W	4500W
Surge Power (10 seconds)	1300W	1950W
Surge Power(60seconds)	1100W	1650W
Commercial Power Range	110VAC,115VAC,120VAC / 220VAC,230VAC,240VAC(Optional)	
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	LiFePO4 12VDC-100Ah with BMS	LiFePO4 24VDC-100Ah with BMS
MPPT Charge controller	30 A (Optional)	50 A (Optional)
DC Battery Specifications		
Model	1000W	1500W
AC Charging(Max)	12VDC	30A
	24VDC	30A
Battery Type	LiFePO4	
Input Voltage Range	12VDC:10.5-15V (Adjustable)	24VDC:21-30V (Adjustable)
Floating Charge Set	12VDC:12.9 ~ 13.6 V (Adjustable)	24VDC:25.8 ~ 27.2V (Adjustable)
Low Voltage Restored	12VDC:12.6-14.4V (Adjustable)	24VDC:25.2-28.8V (Adjustable)
Low Voltage Shutdown set	12VDC:10-10.9V (Adjustable)	24VDC:20-21.8V (Adjustable)
Over Voltage Protection	12VDC:16.7V	24VDC:33.4V
Over Voltage Alarm	12VDC:15V	24VDC:30V

NOTE: specifications may change without previous notice.