



Telecommunication base stations, network optimization, railway, post, public security and other special network computer room systems.

# Smart Indoor/Outdoor PS Unit

Lithium Battery integrated power supply

**1KWA-3KVA**

[www.itapower.it](http://www.itapower.it)

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**ItapowerSmart Indoor/Outdoor PS Unit** is suitable for telecommunication base stations, network optimization, railway, post, public security and other special network computer room systems. With IP54 cabinet and lithium battery inside; It can be customized according to customers' requirement.

## Reliable and energy saving

- With power-on self-check function.
- Intelligent speed regulation design of the fan extends the service life of the fan.
- The built-in LiFePO4 battery with wide operating temperature range, long life and green energy.
- Advanced IGBT technology to enhance the load capacity for sudden power change at the moment of the base station equipment launched.
- Cold start function.
- Heating blanket(optional) to automatically heat the battery under low-temperature conditions to improve battery performance.

## Intelligent Flexibility

- Indoor and outdoor design for convenient use in various applications.
- Integrated structure with built-in LiFePO4 battery to save space.
- Modular design: power module, battery pack module, power distribution module and heat dissipation system module to realize fast installation and maintenance.

## Intelligent monitoring management

- RS232 interface Support RS485/dry contact and SNMP card as options alarm.
- Perfect protection function of output over voltage, under voltage, output overload and short-circuit protection; over-temperature protection; battery under-voltage warning and protection; anti-surge, lightning protection etc.
- Intelligent unattended function.

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## highlights

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- ① 1KVA-3KVA Inverter
  - ① Indoor/outdoor design
  - ① Build in LiFePO4 battery
  - ① All-in-one solution
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Model	SOT01	SOT02	SOT03
<b>Input</b>			
AC Voltage	176~250VAC (settable)		
Frequency	50Hz±5%		
Power Factor	≥0.99		
DC Voltage	48VDC		
<b>Output</b>			
Rated Power	1000VA	2000VA	3000VA
Power Factor	0.8		
Voltage	220VAC±2% (inverter mode)		
Efficiency	≥90% (inverter mode)		
Frequency	50Hz±0.25Hz (inverter mode)		
Waveform	Pure sine wave (inverter mode)		
Waveform Distortion Rate	≤3% (linear load under full load)		
Overload Capacity	125% rated load protect after 1 minute; 150% rated load protect after 10 sec		
Switching Time	≤10ms		
<b>DC output</b>			
Voltage	-48VDC		
Current	6A/30A (including charging current)		
<b>Battery</b>			
Low Voltage Warning	43VDC±0.5VDC		
Under Voltage	≤40VDC		
Overvoltage Protection Point	≥60VDC		
Overvoltage Recovery	≥55VDC		
Reverse Connection Protection	Yes		
Over Voltage Protection	≥245VAC		
Low Voltage Warning	≤200VAC		
<b>Protection characteristics</b>			
Output Short Circuit Protection	Yes		
Over Temperature Protection	Built-in fan for heat dissipation, intelligent speed regulation according to load		
<b>Battery</b>			
Capacity	48V 50AH LiFePO4 battery pack (optional)		
Maximum Charging Voltage Range	53~59VDC (settable)		
Maximum Charging Current	6A/30A		
<b>Physical</b>			
WxDxH(mm) (1* 48V50Ah LiFePO4 Battery)	600 x 295 x 680		

\* Specifications are subject to change without prior notice.