

# Powerstar PS6000isoA SMT version 20" deep 1000W isolated UPS

## PowerStar



**PS6000iso /rev2 & PS6000isoA /rev2**  
UPS 3U shipboard version. This unit replaces previous generation PS6000isoA. Fit, Form, Function do not change.

**1000s used onboard US Navy Ships- NSN # registered**

(5.2" h X 17" w X 19" D)

Use on Navy ships, Oil Spars, deep water drilling platforms, Cruise ships, Tugs, Yachts any ocean-going vessel

**2Kva Isolation transformer mounted internally. Keep sailors safe from shock.**

**15A-200G long duration high shock dual pole circuit breaker is used for MIL-std-901D-A models.**

**Model PS6000isoA & PS6000isoA-h is built to the high ruggedization levels ('A' designates MIL-std901D- A shock rating and 'h' signifies long life, extended temperature range battery pack)**

**Recessed area on back provides a safe haven for connectors from being bumped (notch back)**

**This new SMT version has illuminated 2 line alphanumeric text readout on front panel showing E, I, VA, W, % of charge, estimated life left of battery pack, etc.**

**Long life 10 year extended temperature range batteries double the life of standard UPS batteries is available (PSrbc8h) This unit uses identical battery pack as previous model.**

**Battery pack is hot swappable- can be quickly replaced while unit is on MAINS through front panel.**

**Powerstar replacement battery packs are supplied with quick disconnect connector, harness, and any padding if necessary to provide like new OEM performance**

**Supplied with a rail mount kit for 4 post 19" rack; slide in and bolt in front mounting ears.**

**Cold Start capable. It will startup & create AC Power without being connected first to AC MAINS**

### Output

> Output Power Capacity 1000Watts/1440 VA

> Nominal Output Voltage 120V, *i model 230V Euro voltage Model Available PS6000irm3uISO*

> *Euro output is selectable from 220V, 230V or 240V.*

> UPS efficiency at Full Load 97%; >96% @ 30% load – subtract 3-5% for transformer loss

> Output Voltage Distortion < Less than 5% at full load

> Output Frequency (sync to mains) 47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal

> Crest Factor up to 5: 1

> Full Sine wave waveform

> Line Interactive style UPS switches to Inverter in 2-4ms (that is less than ¼ of a cycle)

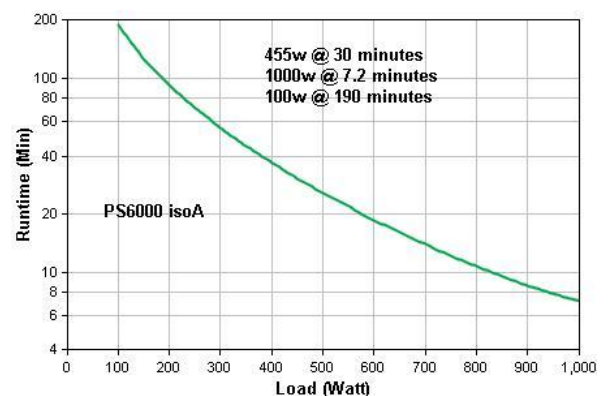
> This unit performs automatic bi weekly tests on its inverter and does a battery load test to find bad batteries before they fail on you. Status display will predict battery life from external conditions.

> Output Connections (6) 5-15R or optional Mil spec. (or you can specify)

> Variable speed fan is very quiet

### Input

> Nominal Input Voltage 120V or **230v for Euro models- PS6000irm2u**. Wired for Shipboard delta power



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- > Input Frequency 50/60 Hz +/- 3 Hz (auto sensing)
- > Input voltage range for main operations 82 - 144V (US model); Input voltage adjustable range for mains operation 75 - 154V. **Euro 230V input range for ACMAINS 160-286V**

## Batteries & Runtime

- > Battery Type VRLA 3-5 year @25°C life expectancy (8-10year Premium battery available)
- > Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
- > **Optional Premium 8-10 year higher temperature -15°+60°C discharge rated batteries available**
- > Typical recharge time 3 hour(s)
- > Typical Backup Time at Half Load 25.8 minutes (500 Watts)
- > Typical Backup Time at Full Load 7.2 minutes (1000 Watts)

## Communications & Management Interface ports

- RS232 S20 RJ50x with DB-9 dongle
- USB with Windows XP and later versions will recognize this UPS when connected via USB and configure itself for UPS operation.

## > Interface Port(s)

- RS-232 via S20 /RJ50x- adapt to DB9 with dongle using Microlink protocol that is used in Powerchute®
- USB port- Powerchute® capable,
- Emergency Power Off dry contacts optional
- 1ea. available SmartSlot™ Interface –accepts these optional extra cost cards:
  - **PS9630** SNMP Network card (Ethernet)
  - **PS9631** Environmental monitor/ SNMP/Dry Contact card
  - **PS9613** dry contact card
  - **PS9620** previous Generation (SUA) DB9 serial Legacy Card.

**PS9630- PS9631** Network card. Either model can use:

- HTTP, HTTPS, IPv4, IPv6, NTP, SMTP, SNMP v1, SNMP v2c, SNMP v3,SSH V1,SSH V2,SSL, TCP/IP, Telnet
- RJ-45 10/100 Base-T
- Radius Authentication

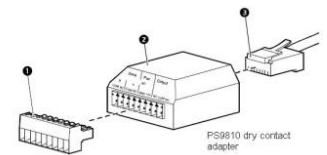
**PS9631** includes a **AP9335T** temperature probe. Add on a **AP9335TH PROBE** for temperature and humidity reporting. Add on **PS9810** dry contact closures (shown) to remotely manipulate customer supplied relays. Customizable input contacts to monitor external devices with the PS9810 adapter.

**PS9613** Dry Contact Card: A set of relay contact closures can be configured to switch when the UPS has a fault, Loss of ACMAINS, Low Battery. Dry contacts can be used as a command to turn UPS off (an INPUT) Screw terminal terminations reside on card

**PS9620** Legacy Card has a DB9 serial RS232 port and it operates as the previous generation SUA PS6000 DB9 port. Pin closures signal Loss of ACMAINS and Low Battery. ('Dumb' signaling) This card can be used if customer written software was monitoring the UPS status and was written for previous generation UPS.



AP9335th Temp & Humidity probe for PS9631



Cable entrance port



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○ Serial Communications: Communicate to the UPS with Powerchute™ software- supplied, either via USB or RS232. Serial RJ50X/ S20 port is provided along with a DB9 dongle for communications via ASCII RS232 protocol. Please note: this port will not provide the same information as the previous version DB9 port. New APC software is required for communication via this port. Previous version "Dumb-signaling" is changed with this new port. This port can be used with new Powerchute software and a computer that has only DB9 Rs232 data ports for shutdown and monitoring.

**USB-**Windows XP™ and above includes native drivers for this UPS. Connect a PC with Windows XP™ or above to USB and Windows will configure itself to work with the UPS for graceful shutdown capability.

## Front Control panel has:

NEW! **2 line Alphanumeric readout display** showing unit Status, Load, Voltage, Alarms, & Configuration. UP, DOWN, ENTER and ESCAPE scroll buttons to cycle through readouts.

- > LED status display **Output On Line**, **On Battery**, **Replace Battery**, and **Fault** Indicators
- > BEEP! Audible Alarm when on battery: distinctive low battery alarm: configurable delays, *press any key to mute*

## Physical

- > Maximum Height 5.2"- 3 rack units
- > Maximum Width 17"- for 19" racks
- > Maximum depth 20" Deep
- > Plug mounting depth 15" due to recess
- > Rack Height 3U
- > Net Weight 85LB. (39 Kg)
- > Shipping Weight 100LB (46Kg)
- > Shipping Height 8"
- > Shipping Width 24"
- > Shipping Depth 24"
- > 16 units per pallet

**Steel Rail kit for 4 post 19" rack is included with mounting hardware**

## Environmental

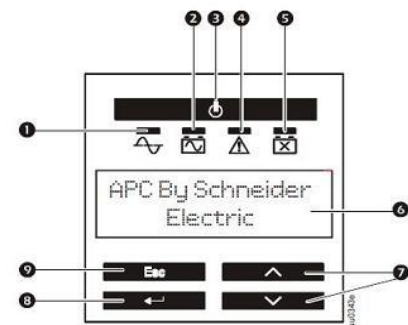
- > Operating Environment 0°+40°C with standard batteries; **-15°C + 50°C charge rating with our Premium battery upgrade (order PS6000isoAh or PS6000isoh)**
- > Operating Relative Humidity 0 - 95%
- > Operating Elevation 0-3000 meters
- > Storage Temperature -15 - 45 °C
- > Storage Relative Humidity 0 - 95%
- > Storage Elevation 0-15000 meters
- > Audible noise at 1 meter from surface of unit 46 dBA
- > Online Thermal Dissipation **95 BTU/hr**

## Surge Protection and Filtering

- > Surge energy rating 459 Joules, Filtering: Full time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping response time: meets UL 1449

## Display Panel

- 1 Online LED
- 2 On Battery LED
- 3 UPS Output ON/OFF key
- 4 Fault LED
- 5 Replace Battery LED
- 6 Display screen
- 7 UP and DOWN keys
- 8 ENTER key
- 9 ESCAPE key



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## **Other models**

**PS6000-1/r2** is available. 3 rack units x 15" deep is same UPS san isolation transformer military or other connectors available on request) 67 LB. NSN registered Great for limited depth locations.

**Enclosed isolation transformers** for remote mounting with plugs and breakers per your design.

**PS6000rm2u** which uses the SMT electronics from this unit enclosed in a 2u chassis x18" Deep. 65Lb. NSN Registered No isolation transformer. 455w @ 30 minutes

**PS6000rm1u** 1 rack unit tall x 665mm deep, 4 ea. NEMA 5-15r, 325w @ 30 minutes True sine output, LCD display. 53 Lb.

**PS1504** A floor standing model PS1504 is available. Similar specs. The PS1504 is a mini tower design and Powerstar offers a mounting foundation for the PS1504. The mounting foundation includes a steel plate (weld or bolt to deck) with steel mounting straps to secure UPS in place. The PS1504SSAh is a shock rated mini tower for hull mounting- NSN registered. Stainless steel case. As used on LCS ships and with GEDMS system. 425w @ 30 minutes

<http://www.powerstarinc.com>

Powerstar Incorporated

Gaithersburg, MD 20877

+1-301-948-0713

[sales@powerstarinc.com](mailto:sales@powerstarinc.com)