

Powerstar PS3300rm2uSS Shipboard

True online 3KVA /2700W (20" deep on outlet side and 23" deep on fan side)

POWERSTAR UPS

New 304 grade Stainless Steel fully ruggedized version of the PS3300rm2u with a recessed area in back for 6 Power output connectors.

This protects the plugs and allows room for the plugs on shallow depth 24" deep cabinets. The new chassis helps to protect the power outlets. Optionally, located in the back is a UPS Master Bypass switch. This manually operated switch connects the input power directly to the output ports in case of UPS catastrophic failure. An electronic version Master bypass with Relay and front mounted toggle is also available.

The unit also has an easy access front door for replacing the battery pack.

A 230V version of this unit is the PS3300irm2uSS.



3.4"H x16.9"W x23"D 85 x 430 x 584mm



Double Conversion true online type 3KVA UPS

Full Sine wave output capable of 2700W. New improved PF

Can be wired for Delta power (shipboard) or conventional power

Dual pole circuit breaker for Delta power on your ship

This unit is ruggedized to comply with **MIL-std-901D-A** and **MIL-Std-167**

Electronics built to comply with **MIL-STD-1399-300A**

This unit is built to comply with **MIL-std-810f temperature & vibration** if equipped with **Powerstar**

Premium batteries

True online style UPS allows generators to vary in frequency without affecting your equipment.

Smart UPS tests itself and batteries periodically –alarms to advise it's time to replace the cells

Auto restart after a full run upon utility restoration

Cold Start capable- it will become an AC power source if you need it.

Hot swappable batteries – Battery door behind front panel

Output Power Capacity 2700 Watts / 3000 VA

Nominal Output Voltage 110v, 115v, 120V (std.), 127V adjustable via software $\pm 3\%$

Output Voltage Distortion Less than 3% THD at full linear load; <5% into non linear load /C factor 3:1

Output Frequency (sync to mains) or select a frequency via software-

Mounting rails included for 4 post rack mounting

Standard built-in "Automatic Dynamic Bypass" switches input directly to output if an overload or UPS failure should occur- (Sync to Mains Mode only).

Optional: Master Bypass is a manual switch that can be used in case even the Dynamic Bypass was to fail or unit is not in Sync to Mains Mode.

"Emergency Power OFF" contacts are located on rear of unit. You can attach external contacts to EPO with a low current switch and the UPS output is disabled when contacts are closed.

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Output Connections (standard)

(6) NEMA 5-20R or Military Spec Ms3102e22-2s

Output Overload 200% capacity for 2 seconds



Output Overload 150% capacity for 50 seconds

Input

Nominal Input Voltage 120V (230VAC *i model available*)

Input Frequency 40/70 Hz

Input Cord 8 ft. NEMA L5-30P or Military Spec



Input voltage range for main operations 84 - 140V (30% load)

Input voltage range for mains operation 102 - 140V (+90% load)

Transfer Time 0 ms- Inverter is always online

Batteries & Runtime

AGM Battery Type Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof

Typical recharge time 3 hours to 90% after full run

Replacement Battery PSRBC3303 (*high temperature long life batteries available for this unit- PSrbc3303H*)

Runtime with 1 additional 2u battery Cabinet 23.7" deep (93 lb) PS3303rm2uBP

| Minutes Runtime | 800W | 1000W | 1200W | 1600W | 1800W | 2000W | 2700W |
|------------------|------|-------|-------|-------|-------|-------|-------|
| PS3300rm2uSS | 25 | 20 | 14 | 9 | 8 | 5 | 4 |
| (1) PS3303rm2uBP | 102 | 80 | 56 | 44 | 38 | 26 | 18 |

Note: Up to 4 additional 2u battery cabinets may be daisy chained to main unit. Only a front mounted Master Bypass switch option is available with additional battery cabinets.

PS3303rm2uBP uses circuit breaker for safety – not a fuse.

Battery Upgrades: All Powerstar units may be upgraded with either High temperature rated batteries or **Premium Long Life High temperature rated batteries.**

Long life rated 8-10 year @25°C

-15 to +50 °C charge rated and -20 to +60 °C discharge rating- order 2 sets PSRBC3303H for 2u extended Battery cabinet PS3303rm2uBP.

Interface Port(s)

USB and 8 pin terminal block (no DB9 available) standard and available SmartSlot™ for optional SNMP Ethernet Network card (PS9059)- Use Multilink™ software (supplied) or SNMP software to communicate with UPS and capture alarms with USB or Ethernet.

8 pin terminal block located on the back – Any mode Shutdown (immediate) input.

Battery Mode Shutdown (2 minute delay before shutdown) input

Also Battery Mode indicator and Low Battery indicator dry contacts (30ma max.).

The purpose of Any Mode Shutdown is to shut down the UPS output by turning off the rectifier, inverter and bypass so that there is no power to the loads. Any Mode Shutdown can be operated locally and remotely, as described as follows:

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- Any Mode Shutdown can be performed by shorting Pin1 and Pin2 with external switch (not supplied)
- Battery mode Shutdown can be performed by shorting Pin3 and Pin4 with external switch (not supplied). *A battery shutdown signal will not cause an immediate shutdown. It will start a 2 minute shutdown timer. This timer cannot be stopped once triggered. If utility power returns during this countdown, the Liebert GXT3 will still shut down and must remain shut down for 10 seconds. Whether the UPS turns back on when the power is restored depends on the auto-restart setting.*

Control panel

LED status display with 5 load indicators and 5 battery bar-charge level indicators

Also **On Line LED: On Battery: Replace Battery: Bypass enabled and Overload Indicator** LEDs

Audible Alarm -Alarm when on battery: distinctive low battery alarm: on bypass

Protection

The PS3300ss has surge protection and filters that protect the connected load from power surges, Electromagnetic interference (EMI) and radio frequency interference (RFI). These features can minimize any surges or interference present in the utility power. The filters also prevent surges or interference generated by the UPS from adversely affecting devices connected on the same branch. Surge immunity IEC 62040-2 2nd Ed.

Input Protection

The UPS has built-in protection against under voltage, over current, and over voltage conditions including low-energy lightning surges, introduced on the primary AC source. The 120 and 208 VAC models can sustain input surges without damage per criteria listed in ANSI C62.41 Cat A Lev3. *The 230 VAC UPS can sustain input surges without damage per criteria listed in EN61000-4-5.*

Dimensions (Depth subject to change)

Maximum Height 3.4 inches (133 mm)

Maximum Width 16.9 inches (483 mm) for 19" rack mounting

Maximum Depth right side of cabinet 23 inches (584mm) / 23.7" (602mm) with rear mounted MB switch

Maximum Depth on Left side of cabinet 20" (508mm)- power outlet side

Rack Height 2U

Net Weight 95.00 lbs. (43 kg) Shipping Weight 115 lbs. (52 kg)

Shipping Height 10.6 inches (270 mm) 24.00 inches (610 mm) Depth 30 inches

UPS Color Gleaming 304 grade Stainless Steel with Brushed Aluminum front panel.

Note: Front panel can be painted to your spec.

Operating Environment

32 - 104 °F (0 - 40 °C) (battery dependant) *Increase this range to -20 +60 °C with Powerstar Premium battery*

Operating Relative Humidity 0 - 95% non condensing (*add conformal coating optional*)

Operating Elevation 0-10000 feet (0-3000 meters)

Storage Temperature 5 - 113 °F (-15 - 45 °C)

Storage Relative Humidity 0 - 95%

Storage Elevation 0-50000 feet (0-15000 meters)

Audible noise at 1 meter from front surface of unit <46 dBA , rear <48 dBA

Online Thermal Dissipation: 1535 BTU/h @ full load

Standards Mother board manufactured in ISO 9001:2008 facility.

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120VAC models UL Standard 1778, u-UL CSA 22.2, No. 107.1 ANSI C62.41 Cat A Level 3 IEC 61000-3-2 EN 62040-2 EN61000-4-2 EN61000-4-3EN61000-4-4 EN61000-4-5 EN61000-4-6 FCC Part 15, Class A ISTA Procedure 1A RoHs Compliant

230 Volt Units (PS3200irm2uSS)

EN 62040-1:2008 CE compliance mark EN50091-1-1 EN50091-2, Class B EN50082-1 EN 62040-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-3-2 ISTA Procedure 1A RoHs Compliant WEEE Compliant

Designed to be compliant with Mil -STD- 1399-300A and can be built to meet 810F shock and temperature specifications. Unit is built to comply with Mil-std- 901D grade A and MIL-std-167. We also have other Mil-STD- 901D grade A units available in 1.5, 2.2, and 3KVA. Contact us.

2 year warranty on parts and Labor

<http://www.powerstarinc.com> +1-301-948-0713 or 800-209-5556

Sales@powerstarinc.com

Powerstar Inc.

9073 Shady Grove

Gaithersburg, MD 20877

Fax+1-301-948-2094 PS3200SS shown is similar to PS3300SS



PS3200rm2uSS with Master Bypass and rear mounted Circuit Breaker. Mil Spec connectors are available.
Slot for Ethernet Card shown on Left. EPO/ Alarms are green plugs. USB Port in White. Copyright Powerstar 2011

