

Powerstar PS3200rm2u  
True online 2KVA /1800W (19.7" deep)



**Powerstar PS3200rm2u**

Double Conversion true online type 2KVA UPS

Can be wired for Delta power or conventional power 3.4"H x16.9"W x19.7"D 85 x 430 x 497mm

Dual pole circuit breakers for Delta power on your ship

We can ruggedize this unit to meet many MIL specs

True online allows generators to vary in frequency

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

- **NOW!** Output Power Capacity **1800 Watts** / 2000 VA

Nominal Output Voltage 110v, 115v, 120V (std.), 127V adjustable via software  $\pm 3\%$  (230V i model)

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- Waveform Type Sine wave

Mounting rails included for rack mounting

Built in Dynamic Bypass switches input directly to output if an overload or UPS failure should occur- (sync to mains mode only)

Emergency Power OFF contacts are located on rear of unit. Short the contacts with a switch and the UPS output is disabled

Output Connections (standard)

(6) NEMA 5-20R or Military Spec optional

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 10 ft. NEMA L5-20P 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 PSRBC3203 (high temperature long life batteries available for this unit- PSrbc3203H)

Battery capacity Volt amp hour 432 VA/hr

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Typical Backup Time at Full Load 4.0 minutes (1800 Watts)

Typical Backup Time at Half Load 10.5 minutes (900 Watts)

Typical Backup Time at 600 Watts= 20 minutes

### **Runtime with 1 additional 2u battery Cabinet 19.7"deep (58 lb) PS3203rm2uBP**

Typical Backup Time at Full Load 18 minutes (1800 Watts)

Typical Backup Time at Half Load 34 minutes (900 Watts)

Typical Backup Time at 600 Watts= 54 minutes

Typical Backup Time =30 minutes @1100 Watts

Battery capacity Volt amp hour 864 VA/hr

Up to 4 additional 2u battery cabinets may be daisy chained to main unit.

PS3203rm2uBP 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 PSRBC3203H for cabinet

### **Interface Port(s)**

USB and 8 pin terminal block (no DB9) 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** – Any mode Shutdown (immediate) and Battery Mode Shutdown (2 minute) inputs. 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:

- 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 PS3200 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 2<sup>nd</sup> Ed.

### **Input Protection**

The UPS has built-in protection against undervoltage, overcurrent, and overvoltage conditions including low-energy lightning surges, introduced on the primary AC source. The 120 and 208 VAC models can

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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

Maximum Height 3.4 inches (133 mm)  
Maximum Width 16.9 inches (483 mm) for 19" rack mounting  
Maximum Depth 19.7 inches (660 mm)  
Rack Height 2U  
Net Weight 53.00 lbs. (24 kg) Shipping Weight 62.00 lbs. (28 kg)  
Shipping Height 10.6 inches (270 mm) 24.00 inches (610 mm) Depth 26 inches (650 mm)  
UPS Color Black

### 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 <43 dBA , rear <46 dBA  
Online Thermal Dissipation-375 BTU /h

**Standards** Mother board manufactured in ISO 9001:2008 facility.

*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 (PS3200rm2ui)*

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. Also can be built to Mil 901D grade B. Powerstar also has Military 901D grade A units available. Contact us.

2 year warranty on parts and Labor

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