UPS-3PH-5300VA-115VAC

4000 WATTS/5300VA
THREE PHASE 115VAC DELTA INPUT
ACTIVE POWER FACTOR CORRECTION

UPS-5300VA-BP

54AH BATTERY BANK
LEAD ACID MAINTENANCE FREE



UPS-3PH-5300VA-115VAC

UPS-3PH-5300VA-115VAC KEY FEATURES:

- True Online Rugged SINEWAVE UPS
- 4000 Watts in 19" Rack Mount 5U High.
- 3 Phase 115V/60Hz Input with Active Power Factor Correction(Greater Than 0.99)
- Meets MIL-STD-1399, Section 300A (Type I) power for the Voltage Range Specified.
- Input Current THD not Exceeding 4%.
- Ruggedized Modular Design, with Efficiency Exceeding 80%.
- Provides Very High Quality Pure Sinewave Output(2% THD)
- Capable of driving non-linear loads such as non-PFC Switching Power Supplies up to 5300VA.
- Low Weight(less than 85lbs without Batteries).
- Specifically Designed for Submarine and Shipboard Applications in Compliance to MIL-STD-1399, MIL-STD-461F, and MIL-STD-810G.
- Contains a High Efficiency Three Stage Battery Charger to Optimally Control the Charge and Hold cycle for Sealed Lead Acid Batteries.
- Optimal Charging conditions are maintained over an Extended Temperature Range with an Internal Reference that tracks the Nominal Temperature Characteristics of the Lead Acid Cell.
- Micro USB and SNMP Interface with Monitoring Software Supplied.

Rev D (04/01/2014)



UPS-3PH-5300VA-115VAC

Nominal Input Voltage Input Frequency **Operational Input** Voltage Range Input Current THD Input Load Balance

Inrush Current **Fusing**

Input Circuit Breaker Input Current Leakage Efficiency

Turn on Time **AC Output** Voltage Frequency

Load Current Peak Load Current **Load Power Factor**

Load Crest Factor Total Harmonic Distortion Output Circuit Breaker

Input and Output Isolation **Over Voltage Protection**

Over Temperature Protection **Current Limiting**

115V 3-Phase, four wire 60Hz ± 5% (50Hz Available)

115V ±10% with excursions of ±20% for up to 2 minutes

Input Power Factor exceeding 0.99 at full load

<4% at full load

Current loading for any phase does not exceed the average of the currents in all 3 phases by more than 5%

Less than 5msec. 25Apk at 132 VAC

(3 x 40 Ampere)/480VAC, Very fast acting Located on front panel, 3 Pole 35A/250V

Less than 5.0mA max at 132 VAC

82% Typical at full load 1 sec max from power up Waveform Pure Sinusoidal

115Vrms ± 3% 60Hz ± 0.5% 35A RMS 105A

0-1.0 (leading or lagging)

2% (4000W resistive load)

2 pole 40A/250V (Front panel On/Off push button) 2200VDC from Input to Output, and from I/O to Chassis

Shutdown at 110-115% of nominal Vout

Recycle input power to reset Unit shuts down if overheated Recycle input power to reset Current clamped to less than 120Apk

Power limited to 4500W max

Greater than 10 minutes with SPI external Battery Rack **Battery Run Time**

AC INPUT OK H Isolated TTL Logic signals:

> AC OUTPUT OK H TEMP OK H FAN OK_H

BAT OK H; BAT MODE H

Switch located on front panel

and also can be turned off

using BEEPER ON/OFF signal

LEDs provided for all signals

(See app. note for more info)

and LED ARRAY for SOC

Communication Interface

BEEPER ON H

Contact Closure to Signal RTN Isolated Inhibit Signal

turns off output Isolated 0-2.5V signal

State of Charge(SOC) Beeper On/Off

Indicators

Micro USB/SNMP/HTTP

Cooling

Size

Forced Air Cooled (Front to Back design)

19" sub-rack 5U high x 20" DP

Weight 85Lbs max Environmental Designed to meet MIL-STD-810G:

Operating Temp 0°C to 50°C(method 501.5), Non-Operating Temp -40°C to 85°C(method 502.5),

Humidity(method 507.5),

Altitude up to 10,000 ft operational (method 500.5), Altitude up to 40,000 ft non-operational (method 500.5), Fungus(method 508.6), Salt Fog(method 509.5), Sand and Dust(method 510.5, Procedures 1,2), Vibration(method 514.6 Category 24 Procedure I),

Shock 15g for 40ms, half sine, each direction all axes,

EMI: MIL-STD-461F

Rev D (04/01/2014)

BATTERY BANK



UPS-5300VA-BP



UPS-5300VA-BP

Rev D (04/01/2014)

UPS-5300VA-BP KEY FEATURES:

- 54AH battery bank is a rugged battery option that consists of four valve regulated leadacid, maintenance-free 54AH batteries.
- Contains a 125A/80VDC output circuit breaker. Each battery individually fused with very fast acting 20A/125VDC fuses. Fuses are rear panel mounted for easy access.
 Front panel LEDs provide indicating fuse status.
- Provides greater than 10 minutes of back up run time at 4000W/5300VA load when powering SPI model UPS-3PH-5300VA-115VAC.
- The batteries are housed in a 6U rack mount enclosure providing easy serviceable battery replacement.
- Provides a TEMP signal to monitor battery bank temperature.
- Wide operating temperature range -20°C to +60°C.
- Ruggedized mechanical design to meet MIL-STD-810G environmental requirements.
- Size: 19" sub-rack 6U High X 22" DP
- Weight: 195 Lbs max.



