

FEATURES

- True On-line UPS- No break in power
- Hot-swappable Batteries
- Cold start- start on DC capability
- RS-232 Interface
- Alarms with contact closure
- Frequency Conversion capability



ULTRA-RELIABLE UNINTERRUPTIBLE POWER FROM ANY AC SOURCE LAND, SEA OR AIR

The Behlman RUPS-1250 Uninterruptible Power Source is a true on-line UPS that continuously conditions incoming power and provides a high quality sine wave output with very low distortion. In the event of a loss of input power the RUPS will switch to the internal batteries, in ZERO time, for a safe shutdown. The RUPS continuously monitors status, input, battery conditions, fault conditions and alarms. This information is displayed on the front panel and can be communicated to a host via a built-in RS-232 Interface and relay contact closures.

INPUT

Voltage:	95 – 270 VAC, single-phase
Frequency:	45 – 450 Hz
Isolation:	Galvanic isolation
PFC:	Greater than 0.9

OUTPUT

Waveform:	Pure Sine Wave
Power:	1200 VA/1000 W
Voltage:	115 VAC +/- 2%
Current:	10.9 Amps
Frequency:	-50 Hz, -60 Hz, -400 Hz +/- 0.1%
Crest Factor:	3:1
Power Factor:	100% of rated output into any power factor load (with linear loads)
Distortion:	Less than 3% THD typical (with linear loads)
Line Regulation:	+/- 0.5% for +/- 10% line change
Load Regulation:	+/- 2.0%, no load to full load
Efficiency:	80% typical (AC-AC)
Switch-over time:	Zero, AC-AC or DC-AC

PROTECTIVE CIRCUITS

Input:	Main Circuit Breaker
Output:	Fuse (on rear panel)
Constant Current:	Overload automatically causes voltage fold-back to provide maximum current without distorting output waveform

The RUPS-1250 is a rugged, compact rack-mountable unit, with hot-swappable batteries (from the front panel). The RUPS can “cold-start” (start on DC) and has the ability to output a frequency different from the source frequency. The RUPS-1250 is ideal for remote and difficult-to-access locations. It provides conditioned and back-up power for control, computer, instrumentation, communication and other power sensitive equipment.

The RUPS-1250 can be used world-wide and is an exceptional device for industrial, aerospace and military ground, airborne and shipboard applications.

Short Circuit:	Short circuit overload electronically latches output open to protect load... power restored by cycling input power
Thermal:	Two internal temperature sensors. First sensor sounds alarm and second sensor shuts off output to prevent heat damage
Batteries:	Fuse (in battery chassis)
Surge:	IEEE C62.41-1980
ESD:	Withstand capability: IAW IEC 801.2, Level 4

CONTROLS / INDICATORS

Input Power:	On/Off Circuit breaker with guard, locking pin and Green LED
Output:	On/Off switch with guard and Green LED
Battery:	On/Off switch with guard to turn battery off before replacing Battery Module
Display:	24 character x 2 line Vacuum-Fluorescent display, providing the following output data: Volts (V), Amps (A), Frequency (F), Watts (W), Power Factor (PF), Battery Voltage (B) and Faults (see Table 1)
Remote Interface:	RS-232 interface for monitoring of operating status and alarms
Alarm Silence:	Momentary switch to silence alarm Will not silence LB, OV, OT, OL

TABLE 1

FAULT/ALARM	DISPLAY	ALARM SILENCE Momentary switch	CONTACT CLOSURE 3 Form "C" contacts	OUTPUT STATUS
Line Fail	(LF)	YES	LINE FAIL	ON
Over Voltage	(OV)	NO	FAULT	OFF
Constant Current	(CC)	YES	FAULT	ON
High Temperature	(HT)	YES	FAULT	ON
Over Temperature	(OT)	NO	FAULT	OFF
Overload Latch	(OL)	NO	FAULT	OFF
Low Battery	(LB)	NO	LOW BATT	ON for limited time

BATTERIES**Removable, Hot-swappable, Module**

Type: Sealed, maintenance free, Lead Acid (four, 12 V)

Run Time: 5 minutes typical at full load

Recharge Time: 4 hours to 90% of full charge

Cold-Start: Start on battery without AC input

MECHANICAL & ENVIRONMENTAL

Dimensions: High-strength rack-mount chassis with handles front and rear
19"W X 7.00"H X 21"D
(48.3 cm X 17.8 cm X 53.3 cm)

Weight: 48 lbs (21.8 kgs)

Input Connector: J1- MS3400D16-10D

Output Connector: J2- MS3400D16-10E

Data/Alarms Connector: J3- DB15

Battery Connector: J4- MS3402E-20-23S

Ground Stud: #10-32

Slide provisions: Mounting provisions compatible with General Devices CTHRS-122

Operating Temperature: -4° to 122° F (-20° to 50° C)

Storage Temperature: -40° to 149° F (-40° to 65° C)

Humidity: Up to 95% non-condensing

Altitude: Operating: 0-15,000 ft.
Non-operating: 40,000 ft.

Cooling: Internal fans, air-flow front to rear

**Rear View****OPTIONS**

-BM2 Battery Module for 15 minutes run time (typical)

-BS Battle Short- overrides OT shut down. Audible alarm stays on.

-EB4 External Battery chassis (four 12V, 21 A/Hr)

-S Slides

Designed to meet the following:**Mil-STD-1399**

MIL-STD-810E Vibration: Method 514.4, Category 5
Shock: Method 516.4, Procedure 1

MIL-STD-461**MIL-STD-704**www.behlman.com

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