

bds Brentwood Display Services Inc.

Model 1 Power Supply

The Model 1 Power Supply is a robust switching-type power supply, designed to provide a reliable source of uninterrupted power. Features include transformer line isolation, ELV (extra low voltage) operation, UPS battery back-up with zero transfer time, an integral charger, a low voltage alarm, and load dump circuitry.

SPECIFICATIONS

Operating Temperature Range	-40 to +74 C, no load to full load. Cold start @ -40 C
Operating Humidity range	5 to 95% non-Condensing.
Input AC Voltage Range	0 to 135 VAC continuous (with battery).
Type / Efficiency	Multiple Low Voltage Switching /80% typical efficiency
UPS Operation	Continuous – Diode Switched (0.0ms transfer time)
NEMA Tested for Surge & Power Interruption	Yes – Passed
NEMA Tested for Mechanical Shock & Vibration	Yes – Passed
Voltages Supplied for Sign Control	35.0V nominal (+30 to 40V adjustable), +6.25V, -12V, +12 V (V battery; 10.0 to 13.9VDC).
Stand-by Regulator	5.0V @ 100 ma. Max.
Current Limiting	Fuse and/or Electronic (supply specific).
Re-Calibration Period	10 years (Battery Supervisory Circuitry)
Charger Type	2.0A Constant Voltage Current Limited
Standard Battery	6.0 AH 12V Lead Acid Gel Cell.
Back-Up time with Standard Battery	Typical 30 minutes @ 20C, 10minutes @ -40C.
Charger Supervisory Functions	Low Volts, Charge/Discharge, Load Dump.
Conformal Coating	Complies with MIL-1-46058C Type SR
Board Material	.062 Epoxy Glass.
PWB Material Rating	G3 CSA / UL approved.
Copper	2 Oz Plated to 3 Oz
Connectors	All connections plug-in terminal block type.

Specifications subject to change without notice.