

# *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**

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

Specifications subject to change without notice.