

DBL 1400M Series UPS



▶ The DBL 1400M UPS offered by Econolite allows your intersection to continue operation even in a power loss, brown out, or dirty power.

About the DBL 1400M UPS

DBL 1400M UPS (Uninterruptible Power System) devices play a vital role in day-to-day intersection operations. The DBL 1400M UPS was designed to work in intersections with LED or incandescent signal heads. The DBL 1400M series UPS is a double conversion UPS which provide continuous (24/7) AC power to the cabinet and field signal indications. In the event of a power loss or brownout below 85 VAC, the DBL 1400M UPS instantaneously switches from AC line to battery allowing the intersection to continue operation until utility power is restored. The use of double conversion technology also provides continuous power conditioning to remove the effects of dirty power or fluctuating AC line frequency. The DBL 1400M provides up to 1400 watts of output power. DBL 1400M UPS solution provided by Econolite is rugged and well-designed for a wide range of traffic applications.

At A Glance

- ▶ Double-conversion, true on-line design
- ▶ Operates in temperatures of up to 165.2°F (74°C)
- ▶ 1400 watt rating
- ▶ Continuous voltage regulation
- ▶ Output isolation
- ▶ Complete power conditioning
- ▶ High rate 280 W charger for fast recharge time
- ▶ Excellent voltage regulation +/- 1%



Rating

- DBL 1400M - 1400W

Input

- DBL 1400M - 120-220/240VAC

Output

- DBL 1400M - 120VAC

Regulation

- DBL 1400M - +/- 1%

Frequency

- DBL 1400M - 60Hz

Output Wave Form

- DBL 1400M - Pure sine wave

Harmonic Distortion

- DBL 1400M - Less than 3%

Power Factor

- DBL 1400M - 1

Topology

- DBL 1400M - double conversion

Communications

- Full duplex, RS 232 PORT-9 pin for programing or Ethernet SNMP (optional)

LED/LCD Indicators

- DBL 1400M - Load, battery charge, line, low battery, fault, overload, bypass, test, inverter, and utility available

Test Button

- LEDs indicate load percentage as 25, 50, 75, and 100% load

Transfer to Battery

- DBL 1400M - 0 ms

Protection

- DBL 1400M - Electronic circuit and fuse

Relay Outputs

- DBL 1400M - UPS fail, AC fail, on battery, and low battery

Overload

- DBL 1400M - 125% for 10 minutes then the UPS goes to bypass

Emergency Power Off (EPO)

- In the event of the cabinet/UPS getting turned over, all output power is disconnected

Options

- External bypass switch
- SNMP card
- Extended warranty
- ABM-200 external charger

Basic Specifications

- ▷ Temperature: -34.6°F to 165.2°F (-37°C to + 74°C)
- ▷ Humidity: 10% to 90% non-condensing
- ▷ Weight: DBL 1400M - 21lb
- ▷ Dimensions: DBL 1400M - 17.5" W x 12.75" D x 5.5" H
- ▷ When not running on utility AC, the UPS system will provide AC outputs as long as there is either sufficient battery voltage/capacity or other alternate AC (generator, solar, etc...) Battery run time will vary based on load and battery capacity deployed.

