

Traffic Cabinet Components and Accessories

DBL 1400M UPS

What, exactly, is the DBL 1400M UPS?

The DBL 1400M UPS (Uninterruptible Power System) is a line-interactive battery backup solution that plays a vital role in day-to-day intersection operations. 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 DBL 1400M provides up to 1400 watts of output power.

Why do agencies use the DBL 1400M UPS?

The DBL 1400M UPS provides continuous (24/7) AC power to the cabinet and field signal assets. The use of double-conversion technology also provides continuous power conditioning to remove the effects of dirty power or to fluctuate AC line frequency.

How does the DBL 1400M UPS benefit the driving public?

Uninterruptible power systems help ensure signalized intersections continue to function properly during utility power disruptions. The DBL 1400M UPS ensures safety for the driving public during power outages.





Rating

- 1400M - 1400W

Input

- 1400M - 120 - 220/240VAC

Output

- 1400M - 120VAC

Regulation

- 1400M - +/- 1%

Frequency

- 1400M - 60Hz

Output Wave Form

- 1400M - Pure sine wave

Harmonic Distortion

- 1400M - Less than 3%

Power Factor

- 1400M - 1

Topology

- 1400M - DOUBLE conversion

Communications

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

LED/LCD Indicators

- 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

- 1400M - 0ms

Protection

- 1400M - Electronic circuit and fuse

Relay Outputs

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

Overload

- 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: 800/1000/1400M - 15lb
- Dimensions: 800/1000/1400M - 15" W x 11" D x 5-1/2" 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.