

DBL MX Series LED UPS



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

About the DBL MX Series LED UPS

DBL MX Series UPS (Uninterruptible Power System) devices play a vital role in day-to-day intersection operation. The DBL MX series UPS was designed for use in intersections where the agency has converted to LED signal heads. The DBL MX 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 65 VAC, the DBL MX 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 MX is available in 800, 1000, or 1400 watt output. DBL MX UPS solutions provided by Econolite are 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)
- ▶ 800, 1000, 1400 watt ratings
- ▶ Continuous voltage regulation
- ▶ Output isolation
- ▶ Complete power conditioning
- ▶ Built in 250 W charger for fast recharge time
- ▶ Excellent voltage regulation +/- 1%



Rating

- DBL 800MX - 800W
- DBL 1000MX - 1000W
- DBL 1400MX - 1400W

Input

- DBL 800/1000/1400MX - 120-220/240VAC

Output

- DBL 800/1000/1400MX - 120-220/240VAC

Regulation

- DBL 800/1000/1400MX - +/- 1%

Frequency

- DBL 800/1000/1400MX - 50/60Hz

Output Wave Form

- DBL 800/1000/1400MX - Pure sine wave

Harmonic Distortion

- DBL 800/1000/1400MX - Less than 3%

Power Factor

- DBL 800/1000/1400MX - 1

Topology

- DBL 800/1000/1400MX - double conversion

Transfer to Battery

- DBL 800/1000/1400MX - 0 ms

Communications

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

LED/LCD Indicators

- DBL 800/1000/1400MX
 - LED - AC input normal, AC to the load normal, AC to dial timer normal, ups internal bypass circuit normal, and ups fault
 - LCD - AC Voltage In, AC Frequency In, AC Voltage Out, AC Frequency Out, % of Max Load, Battery Voltage, UPS Temperature (°C)

Protection

- DBL 800/1000/1400MX - Electronic circuit and fuse

Relay Outputs

- DBL 800/1000/1400MX - UPS fail, AC fail, on battery, and low battery

Overload

- DBL 800/1000/1400MX - 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 800/1000/1400MX - 15lb
- ▶ Dimensions:
 - ⦿ DBL 800/1000/1400MX - 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.

