

Traffic Cabinet Components and Accessories

DBL MX Series LED UPS

What, exactly, is the DBL MX Series UPS?

The DBL MX Series UPS (Uninterruptible Power System) is a double conversion uninterruptible power supply system that plays a vital role in day-to-day intersection operations. 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 operating until utility power is restored. The DBL MX UPS is available in 800, 1000, or 1400 watts output.

Why do agencies use the DBL MX Series?

The DBL MX 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 MX Series benefit the driving public?

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





Rating

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

Input

- 800/1000/1400MX - 120VAC

Output

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

Regulation

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

Frequency

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

Output Wave Form

- 800/1000/1400MX - Pure sine wave

Harmonic Distortion

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

Power Factor

- 800/1000/1400MX - 1

Topology

- 800/1000/1400MX - DOUBLE conversion

Transfer to Battery

- 800/1000/1400MX - 0 ms

Communications

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

LED/LCD Indicators

- 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

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

Relay Outputs

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

Overload

- 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: 800/1000/1400MX - 15lb
- Dimensions: 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.