

# Traffic Cabinet Components and Accessories

## DBL MX Series LED UPS

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### What, exactly, is the DBL MX Series UPS?

The DBL MX Series 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 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 programing 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.