

# DBL MX-U Series UPS for Outdoor Applications

## 800 - 2000 W 120 Vac 1Ph/1Ph



Online double conversion UPS for outdoor applications.

The DBL MX-U Series UPS provides reliable backup power for outdoor traffic control signals, signage and CCTV security systems.

## FEATURES

### Clean power

- Online double conversion UPS with sine wave output
- Provides isolation, full power conditioning, filtering and surge protection
- Selectable output voltage regulated to +1%
- Start up without AC mains

### System management

- LCD(1) display for status and control management
- LCD(2) display of AC interruption history and UPS hour counter
- Adjustable delay timer, up to 100-hours
- RS232 communications
- Battery temperature sensor
- EPO shutdown
- Dry contact relays for timer, fault and low battery
- Battery wire harness
- AC bypass wire harness

### Options

- Front panel with AC input/output hardwire terminal block
- SNMP Ethernet card
- External battery charger

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### SPECIFICATIONS

Model	DBL MX 800U 36	DBL MX 1000U 36	DBL MX 1000U 48	DBL MX 1500U 48	DBL MX 2000U
Capacity	800 VA / 800 W	1000 VA / 1000 W	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W
DC nominal	36 V	36 V	48 V	48 V	48 V
Charge current	8.75 A	8.75 A	7.0 A	7.0 A	7.1 A
Transfer AC to DC	0 ms	0 ms	0 ms	0 ms	0 ms
Transfer inverter to bypass	2.5 ms typical		0 ms typical		
Battery connection	Anderson 4 pole				
AC input connection	Anderson Power				
AC output connection	Anderson Power, NEMA 5-15R (2)			Anderson Power, NEMA 5-15R (4)	
Short circuit protection	Bypass mode: output breaker / Normal and Battery mode: output breaker / electronic				
Battery protection	Auto detection with internal fast blow fuse				
Temperature protection	Normal mode: transfer to bypass / Battery mode: UPS shutdown				
H x W x D mm	132 x 380 x 278	132 x 440 x 324			
Weight kg	5 kg	9 kg			

#### AC Input

Nominal voltage	55 / 75 / 90 - 150 Vac (based on load 0 - 60 % 0 - 75%, 0 - 100%)
Input power factor	> 0.99 full linear load
Input frequency	45 - 70 Hz (auto)
THD	< 7% at full load and nominal voltage

#### AC Output

Rated voltage	120 Vac $\pm 1\%$ (adjustable to 100 / 110 / 115 / 120 / 127 Vac $\pm 1\%$ )
Efficiency	up to 90% online mode, up to 86% battery mode, up to 96% eco mode
Output frequency	Synchronized with mains: 3 Hz or 1 Hz selectable, battery mode: $\pm 0.2\%$
THD	< 3% linear load, < 7% non-linear load
Crest factor	3:1
Dynamic stability	< 60ms/5% (10 - 90% load)
AC inverter supply to bypass	Continuous < 105%, 30 sec < 120%, 10 sec < 150%, > 150% transfer to bypass
Battery supply to shutdown	Continuous < 105%, 30 sec < 120%, 10 sec < 150%, > 150% transfer to bypass
Bypass to shutdown	Continuous < 105%, 250 sec < 130%, 125 sec < 135%, 50 sec < 145%, 5 sec < 148%, 2 sec < 157%, 1 sec < 176%, 0.32 sec < 187%, 0.16 sec < 188%

#### General Specifications

Communication	RS232
Compatible PC	MS Windows, Linux, iOS
Temperature	Operating -37° to +74° C
Humidity	0 - 90% non-condensing
Safety	Designed to UL 1778 v4
EMC	FCC part 15 Class A