
# DBLMXU-36 Series

## Double Conversion UPS

The DBLMXU-36 Series UPS (Uninterruptable Power Supply) is a double conversion uninterruptable power supply system that plays a vital role in day-to-day intersection operations. As a 36VDC system it uses three 12-volt batteries in series, or can be used with the revolutionary Super Cap ZX1000-36 battery which is a green chemical-free battery that offers an extraordinary operating lifespan of up to 30 years. In the event of a power loss or brownout below 65 VAC, the DBLMXU-36 UPS instantaneously switches from AC line to battery, allowing the intersection to continue operating until utility power is restored. This zero switchover time is a benefit of the double conversion architecture. The DBLMXU-36 UPS is available in 800, 1000, or 1400 watts outputs.

The DBLMXU-36 UPS provides continuous (24/7) AC power to the cabinet and field signal assets. The use of double-conversion technology allows operation during brownouts without the need for switching to battery power, as well as continuous power conditioning to remove the effects of dirty power or to fluctuate AC line frequency.

UPS systems allow signalized intersections to continue to function properly during utility power disruptions, as such the DBLMXU-36 provides peace of mind to agencies and helps ensure safety for the driving public during power outages.

### Key features

- Double Conversion UPS
- Wide input voltage range without switchover to battery power (55VAC to 150VAC)
- Cold start capable to bring power to a system without utility power
- Zero switchover time
- Continuous power conditioning during utility power disruptions
- Operates with the Super Cap ZX1000-36 battery which is a green chemical-free battery
- Ensure safety for the driving public during power outages

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| MODEL | DBLMX800U-36 / DBLMX1000U-36 / DBLMX1400U-36 | |
|---|---|---|
| POWER RATING | 800VA/800W / 1000VA/1000W / 1400VA/1400W | |
| Input | Voltage Rating | 55/75/90-150 VAC Based on the load percentage -25% / 0-75% / 100% |
| | Frequency Rating | 45 to 70Hz, Auto Sensing with Fine Tuning |
| | Phase | Single phase, 2 wire plus ground |
| | Power Factor | 0.99 at full linear load |
| | THDi | less than 7% at full load and nominal Voltage |
| | Generator Power | Compatible with Generator Power |
| | Input Connection | Anderson Power Pole with ground |
| Output Output | Voltage | 120VAC, adjustable to 100/110/115/120/127 |
| | Voltage Regulation | Static: Within +/-1% until battery low warning |
| | Frequency Synchronized Range | 3Hz,or 1Hz (selectable) |
| | Frequency on Battery | 50/60Hz +/-0.2% unless synchronize to line |
| | Current Crest Ratio | 3:1 |
| | Voltage Harmonic Distortion | Less than 3% full linear load |
| | Output Wave Form | Pure Sine Wave |
| | Output Connections | Anderson Power Pole, NEMA 5-15R |
| | AC Overload | 100 - 105% continuous<br>106 - 120% 30 seconds then bypass<br>121 - 150% for 10 seconds then bypass |
| Efficiency | Line Mode | 90% |
| | Battery Mode | 88% |
| | ECO Mode | 96.5% |
| DC | Battery String VDC | 36VDC |
| | Battery | 322 watts/8.9 amps |
| | Battery | Float: 41.1+ / -1% |
| | Battery | Bulk: 45.0+ / -1% |
| Transfer Time | Transfer Time | 0 ms |
| DC Start | Cold Start | Yes |
| Control | LCD Panel | Normal, Battery, Self Test, Battery Weak or Bad, Low Battery, Battery Not Connected, Fault, Overload, Bypass, Output Amps, Load Level etc |
| | Timer | 4 Line LCD display, NO/NC relays, low battery setting, 10Hr timer, etc |
| Alarm | Audible | Battery Mode, Low Battery, Over Load, Fault |
| Protection | Short Circuit | Bypass: CB Trip, Normal: Output CB /Electronic circuit, Battery Mode: CB |
| | Battery VDC | Auto detection with internal fast blow fuse |
| | EPO | UPS shuts down, latch condition |
| | Over Temp | Normal: Transfer to Bypass, Battery Mode: UPS shuts down immediately |
| Mechanical | Dimensions | 404W x 300D x 175H (15.9”W x 11.8”D x 6.9”H) |
| | Weight | 5.2Kg (11.2lbs) |
| Environmental | Operating | -37c to +74c |
| | Noise Level | 50db |
| | Humidity | 5 to 90% (without condensation) |
| Communication | Standard | RS232, Relay Output (10 pins) Timer output, low bat etc. |
| | Optional | Ethernet SNMP, External SNMP |
| | Platforms | Microsoft Windows, Linux, Ma8 |
| Safety Standards | Safety | cTUVus, ul 1778-R8.15, CSA C22.2 No107 3-14 |
| | FCC | FCC Part 15 Class A tested |
| | Markings | cTUVus |