

# Traffic Cabinet Components and Accessories

## DBLMXU-48 Series Double Conversion UPS

The DBLMXU-48 Series UPS (Uninterruptible Power Supply) is a double conversion uninterruptible power supply system that plays a vital role in day-to-day intersection operations. As a 48VDC system it uses four 12-volt batteries in series, or can be used with the revolutionary Super Cap ZX2000-48 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 55 VAC, the DBLMXU-48 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-48 UPS is available in 1000, 1500, or 2000 watts outputs.

The DBLMXU-48 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-48 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 ZX1000-48 battery which is a green chemical-free battery**
- **Ensure safety for the driving public during power outages**



## DBLMXU-48 Series Double Conversion UPS

MODEL	DBLMX1000U-48 / DBLMX1500U-48 / DBLMX2000U-48	
POWER RATING	1000VA/1000W / 1500VA/1500W / 2000VA/2000W	
INPUT	Voltage Rating	55/75/90-150 VAC Based on the load percentage -25% / 0-75% / 0-100%
	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	30Amp Terminal Block, L N G
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	30Amp Terminal Block L N G, & NEMA 5-15R
	AC Overload	100 - 105% continuous 106 - 120% 30 seconds then bypass 121 - 150% for 10 seconds then bypass
Efficiency	Line Mode	90%
	Battery Mode	88%
	ECO Mode	96.5%
DC	Battery String VDC	48VDC
	Battery	345 watts/7.2amps
	Battery	Float: 54.8+ / -1%
	Battery	Bulk: 57.4+ / -1%
	Battery Connections	Parallel Anderson PP45 and 48V battery harness
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	440W x 324D x 132H (17.2"W x 12.75"D x 5.2"H)
	Weight	9Kg (20lbs)
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 optional
	Platforms	Microsoft Windows, Linux, Ma8,
Safety Standards	Safety	TUV, uL 1778 & CSA Listed
	FCC	FCC Part 15 Class A tested
	Markings	FCC

