

MC3400 SERIES UPS

70/140/210/280/350kVA 480VAC Units



Engineered to support demanding applications

- **Available sizes**

70/140/210/280/350kVA models available

- **Small Footprint**

The 70/140/210/280/350kVA MC3400 Series UPS (480VAC) units have one of the smallest footprints in the industry. All UPS units are 23.6" wide. This allows for the MC3400 Series UPS units to fit into small locations where space is a premium. (Allow additional space for the battery cabinet).

- **Power Factor 1:1**

For critical applications, this 3-phase online UPS has an output power factor of 1.0. This ensures higher kW output with its advanced IGBT performance.

- **Conformal Coated Boards**

Conformal coated boards protects the MC3400 Series units to be used in "Light Industrial" applications. Boards that are conformal coated include the Main PCB, Bypass, Charger, Parallel and Joint boards.

True On-line Double Conversion Diamond Plus UPS Series has been designed to backup various applications. Small datacenters, Medical Lab equipment, light industrial facilities all require rugged UPS equipment.

- **In Rush Current Capability**

The MC3400 Series UPS units support an overload up to <150% (for 200mS). Can reduce size and kVA/kW of UPS.

- **Modular Design**

The MC3400 Series is a "Modular" design. Adding or subtracting modules is easily accomplished. This greatly reduces the expense and adds flexibility.

- **Adjustable SMART Battery Charging**

The MC3400 Series has a default setting of 18A (per module). Charging current is adjustable if required.

- **Convenient Front Access Service Design**

The MC3400 Series UPS units have incorporated an easy front door access design for ease of maintenance.

- **Power walk-in function**

The MC3400 Series is designed to have flexible power walk-in by way of adjusting the power walk-in time. This setting will optimize generator sizing and reduce the impact to the AC source by having different walk-in time for different paralleled UPS system when AC grid is recovered.

- **External Cable Connections**

Choose between top or bottom power cables

- **Warranty**

Two (2) year warranty.

For additional 3/5 year warranty options please call factory.

Specifications:

MODEL		70kVA	140kVA	210kVA	280kVA	350kVA
CAPACITY*		70kVA/70kW	140kVA/140kW	210kVA/210kW	280kVA/280kW	350kVA/350kW
INPUT						
Input Voltage - (Range)		480VAC - (+15%, -20%), (Three-phase, three wire, L-L, without neutral)				
Input (THD)i		<4% - 100% Load, 6% @ 50% load				
Frequency Range		40Hz ~ 70 Hz				
Phase		Three-phase, three wire, L-L, without neutral				
Power Factor		≥ 0.99 at 100% Load, >0.98 @ 50% load				
OUTPUT						
Phase		3 Phase, 3 wire				
Output Voltage		480VAC				
AC Voltage Regulation		± 1%				
Frequency Range (Sync Range)		50/60Hz Auto Selectable				
Overload	AC Mode	100%~110%: 60 minutes, 111%-125% 10 minutes, 126%-150% 1 minute, >150% for 200ms				
	Battery Mode					
Current Crest Ratio		3:1 max				
Harmonic Distortion		≦ 2 % @ 100% Linear Load; ≦ 5 % @ 100% Non-linear Load				
Transfer Time	Line↔ Battery	0 ms				
	Inverter↔ Bypass	0 ms (When phase lock fails, <4ms interruption occurs from inverter to bypass)				
EFFICIENCY						
AC Mode		96.3%				
Battery Mode		95.48%				
ECO Mode		98.7%				
BATTERY						
Lead Acid Cells		240 (6 cells X 40 - 12V Battery Block)				
Float Voltage		2.28V/Cell				
PHYSICAL						
Standard Model	Dimension, W x D x H (In.)	23.6" x 43.3" x 79.1"	23.6" x 43.3" x 79.1"	23.6" x 43.3" x 79.1"	23.6" x 43.3" x 79.1"	23.6"x 43.3"x 79.1"
	Net Weight (lbs)	763 lbs	860 lbs	957 lbs	1,054 lbs	1,151 lbs
External Battery Cabinet	External Battery Cabinets are required for these UPS Systems	Optional	Optional	Optional	Optional	Optional
ENVIRONMENT						
Operation Temperature		0 ~ 40°C (the battery life will down when > 25°C)				
Operation Humidity		<95 % and non-condensing				
Operation Altitude ft/(m)		3,300 ft., (1000)				
Acoustic Noise Level		Less than 75dB @ 1 Meter	Less than 75dB @ 1 Meter	Less than 75dB @ 1 Meter	Less than 75dB @ 1 Meter	Less than 75dB @ 1 Meter
MANAGEMENT						
Smart RS-232, RS485 and USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC				
Relay Card		Optional				
SNMP Card		Optional				
APPROVAL AGENCIES						
All Agency Approvals		UL1778 (5 th Edition), cUL, CSAc 22.2 No. 107.3-14				
		IEC 62040-2 UPS Standards				
		EMI Compatibility: FCC Title 47, Part 15, Subpart B				

For any additional information please contact Factory.