



## MASH Online UPS MA900IIT

### Online UPS 10Kva-60Kva scalable to 6 units.

Mash MA900IIT State-of-the-art three phase power protection designed to meet a wide range of requirements from medium data centers to industrial and facilities applications, it can grow as your business grows, scalable up to 6 units Parallel/ redundant. MA900IIT (3/3) series UPS is an advanced three-phase-on line high frequency UPS with full digital control technology, supporting three phase in single phase out working mode as well. It breaks the traditional design of tower UPS, adopting the idea of advanced modular design. This series not only ensures the compactness of layout but also enhances the system's reliability. With its excellent electrical properties and perfect protective function in soft and hardware. MA900IIT (3/3) series UPS could adapt to different Utility Powers and provide safe and reliable power protection for different loads

**Categories:** [Online UPS](#)

## Product Description

### Features

- Full digitized DSP control technology
- True on-line double conversion with strong load-taking capability
- Support three phase in single phase out working mode
- Input power factor up to 0.99 lower harmonic current green power, high efficiency & energy saving
- Wide input voltage range, 50Hz/60Hz frequency self-adaptable, adapt to different utility condition

- Support two modes of frequency conversion: 50Hz input/60Hz output and 60Hz input/50Hz output, satisfy user's special requirement.
- N+X redundancy parallel up to 6 unit
- Share battery pack in Parallel operation, saving user's battery cost.
- Digitized charger, with flexible charging parameter setting and battery configuration
- Advanced intelligent battery management technique, prolong the working life of battery effectively.
- Support battery could start and mains supply self-starting, satisfy the user's requirement
- Complete Isolation Design between fragile components and air flow, improving the system reliability greatly.
- Easy to maintained.
- Perfect protective function in soft hardware, robust, self-diagnose, abundant event log for future check
- 5.7 inches multifunctional LCD touch screen, friendly human & machine interface.
- Abundant communication port, including RS232, RS485, USB and SNMP ... etc.

### Technical specifications:

Model	MA9010IIT	MA9015IIT	MA9020IIT	MA9030IIT	MA9040IIT	MA9060IIT
Nominal capacity	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA
<b>Input</b>						
Rated input voltage	380Vac					
Load ≤ 50%	204~520Vac					
50% load ≤70%	242~520Vac					
70% load ≤100%	304~520Vac					
Input mode	Three-phase five-wire system					
Input power factor	≥0.99					
Total harmonic distortion (THDi)	≤3%					
<b>Rated frequency</b>	50Hz/60Hz Auto- Sensing					
AC main power input	40~70Hz					
Bypass voltage range	380Vac *(1±20%) stablized					
<b>Output</b>						

Output power factor	0.9
Rated voltage	400V 3PH , Configurable for 380 : 400 or 415 V 3 Phase nominal output voltage
Voltage precision	±1%
Dynamic voltage transient range	±5% (0-100% load fluctuation)
Total harmonic distortion (THDV)	≤1 % (resistive load);
	≤3% (nonlinear load)
Output voltage direct current component	≤100mv
Output current peak factor	3:01
<b>Output frequency</b>	Main power mode: synchronous with main power; battery mode: 50Hz/60Hz
Battery mode	50 Hz/60Hz
Frequency tracking rate	≤1 Hz/s
Phase lock accuracy	1°
Inverter overload capability	100%<load≤125%, switch to bypass after 10 minutes;
	125%<load≤150%, switch to bypass after 1 minute;
	Load>150%, switch to bypass after 0.5s
Bypass overload capability	≤150%, operate for long time; >150%, continue for 10s
Transfer from main to Battery mode	0 ms
Transfer from Battery Mode to Main	0 ms
<b>System</b>	

Working efficiency of unit	≥93% (≥50% load)	
Battery configuration	±192V~±240V (positive/negative battery group with 16, 17, 18, 19 and 20 pieces for each group for option, 32 pieces 12V/7AH or 12V/9AH are equipped for standard machine, the battery space can allow 64 pieces batteries for Extra backup time use external Battery racks	
Charging current	12A	24A
Parallel/ Redundant	up to 6 Units	
Parallel-capacity capable	Increases total power capacity by using multiple UPSs simultaneously	
Parallel-redundant capable	Power the connected equipment multiple UPSs to increase system redundancy	
Working temperature range	0~40°C	
Output Connections	(1) Hard Wire 4-wire (3PH + G) Or (1) Hard Wire 5-wire (3PH + N + G)	
Manageability (optional )	Customize UPS capabilities with management cards, Provides remote management of the UPS over the network.	
Storage temperature	-25 ~ 55°C	
Noise in 1m from ground	60dB	
Safety	EN62040-1-1	
Electrostatic discharge	IEC 61000-4-2 Level 3	
Sustained electromagnetic sensitivity	IEC 61000-4-3 Level 3	
Voltage flash compatibility	IEC 61000-4-4 Level 3	
Surge interference	IEC 61000-4-5 Level 4	

Electromagnetic interference	EN62040-2 (>25A) class A				
UPS cabinet size	600mm*800mm*1280mm				
Weight (kg)	158	164	164	174	190
Color	Black				
Control panel	5.7 inch multifunctional LCD touch wide screen				
Audible alarm	Alarm of battery mode; when voltage of battery is too low; alarm of fan fault, etc.				
Port	USB, RS232, RS485 and dry contact (standard equipped)				
Optional	SNMP card, Parallel units device				
Warranty	2 Years				