



## MA SERIES

Line Interactive Technology  
600VA to 2000VA

- Line interactive design.
- Microprocessor control guarantees high reliability.
- Equipped with 3-Step Boost and 2-Step Buck AVR to stabilize input voltage.
- Built-in DC start function enables UPS to be started up without AC power supplied.
- Auto restart while AC recovery.
- Replaceable Battery Design.
- Provides Modem/Phone line surge protection.
- Energy saving function (UPS green mode).
- 50/60Hz frequency auto sensing.
- Provides lightning, surge, overload, and short-circuit and overload protection.
- Built-in CCCV battery charger and battery auto test.



### MA SERIES TECHNICAL SPECIFICATIONS

MODEL	MA-600	MA-650	MA-850	MA-100	MA-1200	MA-1500	MA-2000
CAPACITY	600VA/360W	650VA/390W	850VA/510W	1000VA/600W	1200VA/720W	1500VA/900W	2000VA/1200W
INPUT							
Voltage	220VAC/230VAC/240VAC						
Voltage Range	-30% +25%						
Frequency	50Hz/60Hz Auto-sensing						
OUTPUT							
Voltage Regulation	±10% (Battery Mode)						
Frequency	50Hz/60Hz ±1Hz						
Waveform	Simulated Sinewave						
Transfer Time	<6ms (Typical)						
BATTERY							
DC Voltage	12VDC			24VDC			
Recharge Time	5 Hours to 90% after complete discharge						
Battery Protection	Over Discharge Protection						
Advanced Battery Management	Yes						
FUNCTIONS							
Display	LED status indicators for AC normal (Green), Back-up (Yellow), UPS cut off (Red)						
Alarms	Buzzer on for back-up mode, battery low, overload						
Short Circuit Protection	AC fuse and electronic circuit (line mode); electronic circuit (back-up mode)						
Voltage Regulation	2 steps boost and 1 step buck AVR						
DC Start Function	Yes (Cold Start)						
ENVIRONMENT							
Operating Temp.	0°C - 40°C						
Relative Humidity	90% Non-condensing						
Audible Noise	<40dB at 1 meter						
Dimensions (D*W*H) mm	308*98*170			385*98*170		370*150*170	

