

# Master Series

3 Phase Input 1 Phase Output On-Line UPS  
6KVA-30KVA



The Master Series transformer based on-line Double Conversion UPS's are best know for their durability and performance. When sized correctly, these units are able to drive motors, air conditioners, copiers and large networks as well as provide the ultimate protection against surges, dips, blackouts and lightning. With a lifespan of over 15 years, see this as an investment for your company.

## FEATURES

- Three phase in, one phase out
- True on-line double conversion design providing full power protection
- IGBT inverter design
- Wide input voltage window
- Pure sine wave output with less than 3% THD
- Expandable backup run time
- Generator compatible
- Cold start
- Load/Battery power meter display
- Overload, on-line, battery status
- LED/LCD display
- Advanced Battery Management
- Automatically charging in UPS off mode
- Smart RS-232 communication
- Optional SNMP card

## PANELS

### LCD Functions

Output voltage  
Output load  
Battery voltage  
Output frequency

- 1 LCD
- 2 Output indicator
- 3 Fault indicator
- 4 Battery energy indicator
- 5 Overload indicator
- 6 Bypass indicator
- 7 On switch
- 8 Off switch
- 9 Display switch button
- 10 Input indicator



## APPLICATION

Mission Critical Processes, Computer Rooms, Networking Equipment



Telephone Systems



Computer



Servers



Camera Surveillance



Point of Sale



Gates



Industrial



## Specifications

Model	M20
Capacity	20KVA/16KW
<b>Input</b>	
Phase	3 phase & Ground
Voltage Range	400 or 415V $\pm$ 20%
Frequency	50Hz $\pm$ 5%
Max. Current	32A
<b>Output</b>	
Phase	Single Phase & Ground
Voltage Range	230V $\pm$ 1%
Wave Form	Sine wave
Frequency	50Hz $\pm$ 0.5%
THD (Linear Load)	<3%
Power Factor	0.8
Overload Capacity	Overload (110%-150%), 20s later go to bypass, automatically resume when load becomes normal
Short Circuit Protection	current limit, turn off automatically, switch protect
<b>Communication</b>	
Interface	RS232
<b>Battery</b>	
DC Voltage	240VDC
Max. Charge Current	6A
<b>Efficiency</b>	
Whole Unit	>85%
<b>Transfer Time</b>	
Mains to Inverter	0ms
<b>Panel Indication</b>	
LCD	input/output voltage, input frequency, battery voltage, load capacity
LED	low battery, on-line, inverter, bypass, abnormal
<b>Environment</b>	
Temperature	0-40 °C
Humidity	0-90% (non-condensing)
Noise	<58dB
<b>Other</b>	
Net/Gross Weight (kg)	297/337
Dimensions (WxDxH)mm	725 x 430 x 1180

