

MTN-Plus Series

6kVA~10kVA(1/1)

10kVA ~ 20kVA(3/1)

3-Level Inverter Technology



Product

MTN Plus Online Series is an uninterruptible power supply incorporating double conversion technology. It provides perfect protection specifically for strict load. The double conversion principle eliminates all mains power disturbances. A rectifier converts the alternating current from the socket outlet to direct current. This direct current charges the batteries and powers the inverter. In the event of power failure, the maintenance-free batteries power the inverter. Thus the inverter generates a sine wave AC power, which permanently supplies the loads.

Designed with the proven online double conversion architecture, this series of UPS offers the greatest degree of availability in power protecting and provides continuous high quality AC power to connect strict load, especially for the basic equipment in some areas as : finance, communication, government, traffic, manufacture and education sectors.

HIGH RELIABILITY

MTN Plus Series offers high quality power supply with the greatest degree of availability and reliability.

EXTENDED BACK UP TIME

Battery expansion is possible to increase the back-up time of the UPS. For longer back-up time, it is available with the MTN Plus "L" version without internal battery but with powerful battery charger.

COMMUNICATION

MTN Plus series comes with an expansion slot for optional communication board which makes it compatible with the main communication option : SNMP and dry contact card.

Features

- Faster response, more reliable protection by adopting current-limiting hardware circuit on rectifier and inverter sections
- 3-level inverter, support any kinds of load in the power range: Air conditioner / Laser printer / fans / 6-pulse load
- Greatly reduces the voltage stress of input PFC switching components, increases the overall working efficiency by adopting PFC soft switching circuit technology
- Electric stress on switching the UPS on/off is reduced by 50%, inverter working efficiency increases significantly, supports all kinds of load by adopting 3-level inverter technology
- Overall efficiency is increased greatly, less power consumption of small load, effective efficiency reaches over 93% on full load
- With mobile network monitoring function developed, end user can monitor and supervise UPS functioning and running with mobile device anytime, anywhere
- Stable output voltage wave form, more accurate output range of 220V, $\pm 1\%$

Model	MTN Plus 1106-05S	MTN Plus 1106-00L	MTN Plus 1110-05S	MTN Plus 1110-00L	MTN Plus 3110-05S	MTN Plus 3110-00L	MTN Plus 3115-05S	MTN Plus 3115-00L	MTN Plus 3120-05S	MTN Plus 3120-00L
Capacity	6kVA		10kVA		10kVA		15kVA		20kVA	
Real Power Rating	5.4kW		9kW		8kW		12kW		16kW	
Input										
Phase	Single phase+ ground				Three phase + neutral + ground					
Rated Voltage (V)	220/230/240VAC				220/230/240VAC,380/400/415VAC					
Voltage Range	(120± 5 ~ 274± 5) VAC				273VAC~ 478 VAC (line to line)					
Max Current (A)	25(max)		27 (max)		45 (max)		68 (max)		91 (max)	
Frequency	50/60Hz, ±10%									
Power Factor	≥0.99 @full load				≥0.95 @full load					
Output										
Phase	Single phase+ ground									
Waveform	True Sine wave									
Voltage	200/208/220/230/240VAC									
Frequency	50/60Hz (selectable)									
Power Factor	0.9				0.8					
Crest Factor	3 : 1									
THD	<2% (linear load)									
Battery										
Type	Maintenance-free lead-acid									
Voltage (DC)	240VDC									
Communication										
Communication	Interface 9 pin D type connector (RS232), intelligent slot for SNMP adaptor(optional)									
Environment										
Operating Temperature	0°C- 40°C									
Humidity	20-95%(non-condensing)									
Storage Temperature	-25°C - 45°C									
Noise (1meter away)	≤ 50dB		≤ 55dB		≤ 65dB					
Mechanical										
Dimension (W*D*H) (mm)	533*260 *560	425*190 *328	533*260 *560	533*260 *501	533*260 *501	560*260 *717	533*260* 501	560*260 *717	533*260* 501	560*260 *717
Weight (kg)	55.0	12.5	62.0	21.0	23.0	32.0	33.0	65.0	75.0	76.0
Standard										
Industry Standards	IEC61000-4-2 to 5, GB4943-2001, IEC62040-1, YT/D 1095-2000									