

# MTN-Plus Series

1kVA ~ 3kVA, Single-Phase  
Double Conversion Online (VFI)



## Product

MTN-Plus Series is a range of ON-LINE double conversion technology UPS with 0.9 (1/1) output power factor and “zero” transfer time. The load is always powered by the inverter, which supplies true sinusoidal voltage that is free from electrical interference.

### HIGH RELIABILITY

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

MTN Plus Series is compact and very convenient for users, especially for basic equipment such as PC, Workstation, Network centers, Communication equipments, and other critical systems.

### 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 MTN Plus “L” version without internal battery but with powerful battery charger.

### PROTECTIONS OF TELEPHONE LINE

MTN Plus series comes with a RJ45/RJ11 socket to guarantee the protection of its telephone or network lines against any voltage surges.

### AUTOMATIC RESTART

The UPS is programmed to restart automatically when the mains returns after switching off due to end of back-up time following prolonged power failure.

### 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 dry.

## Features

- True online double conversion technology
- 3-level inverter
- IGBT PFC technology
- Wide input voltage range
- Cold start function
- Zero transfer time
- Smart communication port
- LCD/LED display
- Overload and short-circuit protection
- Optional intelligent slot for SNMP adaptor

Module Model	MTN-Plus 1101-05S	MTN-Plus 1101-00L	MTN-Plus 1102-05S	MTN-Plus 1102-00L	MTN-Plus 1103-05S	MTN-Plus 1103-00L
Capacity	1000VA		2000VA		3000VA	
Real Power Rating (W)	900W		1800W		2700W	
Input						
Phase	Single phase + ground Rated					
Voltage (V)	220/230/240VAC					
Voltage Range	115VAC ~ 300VAC					
Max Current (A)	6 (max)		12 (max)		16 (max)	
Frequency	50/60Hz, ±10%					
Power Factor	≥0.95 (According to EN60555-2)					
Bypass Voltage Range	80VAC~286VAC, ±5VAC					
Output						
Phase	Single phase + ground					
Waveform	True Sine Wave					
Voltage	220/230/240VAC, ±1%					
Frequency	50/60Hz (selectable)					
Power Factor	0.9					
Frequency (Utility Mode)	Output frequency synchronizes with input frequency when input frequency is in the range of 46Hz~54Hz					
Frequency (Battery Mode)	Output frequency is 50Hz when input frequency is not in the range of 46Hz~54Hz					
Transfer Time	Utility-Battery = 0ms Utility-Bypass < 4ms					
Voltage Precision	±2%					
Crest Factor	3 : 1					
THD	<3% (linear load)					
Overload Capacity (Utility Mode)	Transfer to Bypass 105%<load≤125%, ±5%, 50s 125%<loads≤150, ±5%, 25s Load>150±5%, 300ms					
Battery						
Type	Maintenance-free lead-acid					
Voltage	36VDC		72VDC		96VDC	
Back Up Time	Standard : 100% load ≥5mins Long Time Unit depends on capacity of external batteries					
Charge Current (A)	1	7	1	7	1	7
Communication						
Communication Interface	9 pin D type connector (RS232)					
Environment						
Operating Temperature	0 °C - 40 °C					
Humidity	0-95% (non-condensing)					
Storage Temperature -	25 °C - 45 °C Altitude >1000m					
Mechanical						
Dimension (W*D*H) (mm)	350*144*236		425*190*336		425*190*336	
Weight (kg)	12.0	5.7	22.2	10.0	26.3	10.0
Standard						
Industry Standards	IEC 61000-4-2 to 5, GB4943-2001, IEC 62040-1, YT/D 1095-2000					