

MAX+ SERIES

HIGH FREQUENCY HIGH PERFORMANCE ONLINE UPS

1KVA / 2KVA / 3KVA ISO TX

EXTERNAL BATTERIES

Max+ series operates with programmable power management outlet along with the availability of hot standby feature and it's static bypass improves its reliability. The SNMP card is also available on demand as an option. This series is based on High Frequency Double Conversion IGBT technology with static bypass which improves reliability and consists of advanced PFC technology or battery management. The fixed output frequency can be synchronized with the input frequency.

FEATURES:

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Wide input voltage (110 V - 300V)
- 50/60Hz Frequency Converter Mode
- ECO mode for energy saving
- Emergency power off (EPO) function
- Adjustable charging current via LCD panel
- SNMP/USB/RS-232 multiple communications (SNMP is Optional)
- 3-stage smart battery charger design to optimize battery performance
- Comprehensive display allows easy monitoring and access of UPS status
- Generator compatible
- Built in galvanic isolation transformer

Online UPS Models
With inbuilt Isolation Transformers



BENEFITS:

- Efficient micro controller based
- Hot standby feature
- Programmable power management outlets
- Static bypass
- Over heating indication and protection.
- Noise Level: Less than 50dBA@ 1meter (with fan speed control)
- SNMP (Optional): Power management from SNMP manager and web browser.

APPLICATIONS:



INDUSTRIAL CUTTING MACHINES



MEDICAL EQUIPMENTS



PROCESS AUTOMATION EQUIPMENTS

TECHNICAL SPECIFICATIONS

MODEL		MAX+ 1KVA ISO TX	MAX+ 2KVA ISO TX	MAX+ 3KVA ISO TX
CAPACITY		1000VA / 900W	2000VA / 1800W	3000VA / 2700W
Input				
Nominal Voltage		200/208/220/230/240 VAC		
Voltage Range	Low Line Transfer	160 VAC / 140 VAC / 120 VAC / 110 VAC \pm 3 % based on load percentage 100 % - 80 % / 80 % - 70 % / 70 % - 60 % / 60 % - 0		
	Low Line Comeback	175 VAC / 155 VAC / 135 VAC / 125 VAC \pm 3 %		
	High Line Transfer	300 VAC \pm 3 %		
	High Line Comeback	290 VAC \pm 3 %		
Frequency Range	40Hz ~ 70Hz			
Phase		Single phase with ground		
Power Factor		\geq 0.99 @ full load		
THDi		\leq 5% @ 220-230VAC on Full Charged battery THDU < 1.6% @ input and full linear load condition		
OUTPUT				
Output Voltage		200/208/220/230/240 VAC		
AC Voltage Regulation (Batt. Mode)		\pm 2 %		
Frequency Range (Synchronized Range)		50Hz system: 47 ~ 53 Hz (60Hz system: 57-63Hz)		
Frequency Range (Batt. Mode)		50 Hz \pm 0.1 Hz (60Hz \pm 0.1 Hz)		
Current Crest Ratio		3:1		
Harmonic Distortion at output		\leq 3 % THD (Linear Load) \leq 6 % THD (Non-linear Load)		
Transfer Time	AC to DC	Zero		
	Inverter to Bypass	4 ms (Typical)		
	ECD to Battery mode	8 ms (Typical), 10 ms(max)		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		78 % @ full charged battery	83 % @ full charged battery	84 % @ full charged battery
ECD mode		84 % @ full charged battery	90 % @ full charged battery	90 % @ full charged battery
Battery Mode		75 %	81 %	81 %
BATTERY				
Long-run Model	Battery Type	SMFVRLA / LEAD-ACID		
	Numbers	12V x 3Pcs	12V x 6Pcs	
	Charging Current (max.)	1A/2A/4A/6A/8A (Selectable), default 8A		
	Charging Voltage	41.1VDC \pm 1%	82.2VDC \pm 1%	
INDICATORS				
Status on LCD		UPS status, Load level, Battery level, Input/Output voltage/Frequency, and Fault conditions Via LCD		
ALARM				
Battery Mode		Sounding every 5 seconds		
Low Battery		Sounding every 2 seconds		
Overload		Sounding every second		
Fault		Continuously sounding		
PHYSICAL				
Dimension, D X W X H (mm)		421 X 190 X 318		
Net Weight (kgs)		15.3	17.8	23.3
Outlet types & Number		3-Pin 6Amp India type Sockets, 4-pcs		
Inlet type		IEC C14 10A Socket	IEC C20 16A Socket	3-Pin 50A Hard-Wire terminal
ENVIRONMENT				
Humidity & Operating Temperature		20-95 % RH @ 0 - 40°C** (non-condensing)		
Noise Level		Less than 55dBA @ 1 Meter with Fan speed control	Less than 65dBA @ 1 Meter with Fan speed control	
Degree of Ingress Protection		IP-20		
MANAGEMENT				
Smart RS-232 or USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional external Slot (for SNMP, Dry contact, ...)		Power management from SNMP manager and web browser		