



EVERY CRITICAL
APPLICATION
NEEDS A RELIABLE
BACKUP PARTNER



ONLINE & LINE INTERACTIVE UPS

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E2 SERIES

ENERGY EFFICIENT HIGH FREQUENCY ONLINE UPS

1KVA/24-1B
INTERNAL BATTERIES

1KVA/36V
EXTERNAL BATTERIES

E2 series ensures synchronization of the hardware, software, analytics and ongoing services to ensure its customers' vital applications run continuously, perform optimally as per the requirement. This series is based on High Frequency Double Conversion IGBT technology with static bypass which improves reliability and operates with configurable output voltage settings. The fixed output frequency can be synchronized with the input frequency.

FEATURES:

- Inbuilt over voltage cut off device.
- Isolation transformer (Optional)
- Generator Compatible
- Configurable output voltage settings
- Smart display for real time information
- EMI noise filter
- Advances PFC technology
- Robust design with enhanced reliability
- External charger up to 8 Amps (Optional for 36V DC system)
- Waveform (Battery Mode): Pure Sine wave



BENEFITS:

EFFICIENCY: AC mode-88%, Battery mode-83%

NOISE LEVEL: Less than 50dBA@ 1meter (with fan speed control)

SNMP (OPTIONAL): Power management from SNMP manager and web browser. Over heating indication and protection.

APPLICATIONS:



PROFESSIONAL WORKSTATIONS



SMALL DATA CENTERS



SMALL COMPUTER LAB

TECHNICAL SPECIFICATIONS

MODEL	E ² 1 KVA 24V IB	KVA 36V EB
CAPACITY	1KVA/800W	1KVA/800W
DC VOLTAGE SYSTEM	24VDC	36VDC
INPUT		
VOLTAGE RANGE	110VAC ± 5 % ~ 300VAC ± 5 %	
FREQUENCY RANGE	40Hz ~ 70Hz	
PHASE	SINGLE PHASE WITH GROUND	
POWER FACTOR	≥0.99 @ FULL LOAD	
OUTPUT		
OUTPUT VOLTAGE	200 / 208 / 220 / 230 / 240VAC	
AC VOLTAGE REGULATION	±1%	
FREQUENCY RANGE (BATTERY MODE)	50 Hz ± 0.1 Hz OR 60Hz ± 0.1Hz	
CURRENT CREST RATIO	3:1	
HARMONIC DISTORTION	≤3% THD (Linear Load) ; 6% THD (N on-Linear Load)	
OVERLOAD CAPABILITY	105%~110%: UPS SHUTS DOWN AFTER 10 MINUTES AT BATTERY MODE OR TRANSFER TO BYPASS WHEN THE UTILITY IS NORMAL. 110%~130%: UPS SHUTS DOWN AFTER 1 MINUTE AT BATTERY MODE OR TRANSFER TO BYPASS WHEN THE UTILITY IS NORMAL. >130%: UPS SHUTS DOWN AFTER 3 SECONDS AT BATTERY MODE OR TRANSFER TO BYPASS WHEN THE UTILITY IS NORMAL.	
TRANSFER TIME	AC MODE TO BATTERY MODE: 0 / INVERTER TO BYPASS: <4 ms (Typical 2.5ms)	
WAVEFORM (BATTERY MODE)	PURE SINEWAVE	
EFFICIENCY		
EFFICIENCY (AC MODE / BATT. MODE)	88% / 83%	89% / 85.5%
BATTERY & CHARGER		
BATTERY TYPE / BATTERY NUMBERS	SMF 12V / 9AH X 2Nos. (In-Built Batteries)	SMF UPTO 65AH (External Batteries)
CHARGING CURRENT	1A	1A/2A/4A/6A (default) Selectable via LCD settings
PHYSICAL		
DIMENSION LXWXH(MM)	282 X 145 X 220	282 X 145 X 220
NET WEIGHT(KGS.)	9.8KGS.	4.5KGS.
ENVIRONMENT		
OPERATING HUMIDITY / TEMP.	20-95% RH @ 0-40°C (N on-Condensing)	
NOISE LEVEL	LESS THAN 50 dBA @ 1 METER (WITH FAN SPEED CONTROL)	
STATUS INDICATIONS		
LED/LCD	LCD DISPLAY INDICATIONS	
MANAGEMENT		
SNMP (OPTIONAL)	POWER MANAGEMENT FROM SNMP MANAGER AND WEB BROWSER	

*Product specifications are subject to change without prior notice.

MAX+ SERIES

HIGH FREQUENCY HIGH PERFORMANCE ONLINE UPS

1KVA/2KVA/3KVA
INTERNAL BATTERIES

1KVA/2KVA/3KVA
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:

- Inbuilt charger of 9.5 Amps
- Smart display for real time information
- Inbuilt over voltage cut off device with surge protection
- Robust design with enhanced reliability
- Frequency convert mode (50Hz/60Hz)
- Generator Compatible
- External Charger: Capacity expansion to 8 Amps (Optional)
- EMI/RFI Noise Filter
- SNMP Card (Optional)
- Power Factor: 0.9
- Waveform (Battery Mode): Pure Sine wave



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:



PROFESSIONAL WORKSTATIONS



SMALL DATA CENTERS



PROCESS AUTOMATION EQUIPMENTS

TECHNICAL SPECIFICATIONS

MODEL	NM36MX1KK11/IB MODEL	NM72MX2KK11/IB MODEL	NM72MX3KK11/IB MODEL
CAPACITY	1KVA/900W	2KVA/1800W	3KVA/2700W
INPUT			
VOLTAGE RANGE	110VAC±5% ~ 300VAC±5%		
FREQUENCY RANGE	40Hz~70Hz		
PHASE	Single Phase with Ground		
INPUT POWER FACTOR	≥0.99 @ Full Load		
OUTPUT			
VOLTAGE RANGE	200/208/220/230/240VAC		
AC VOLTAGE REGULATION	±1%(Battery Mode)		
FREQUENCY RANGE (Battery Mode)	50Hz±0.25Hz or 60Hz±0.3Hz		
CURRENT CREST RATIO	3:1		
HARMONIC DISTORTION	≤2% THD(Linear Load); 4% THD(Non-Linear Load)		
OVERLOAD CAPABILITY	105%~110% : UPS shuts down after 10 minutes at battery mode or transfer to bypas when the utility is normal. 110%~130% : UPS shuts down after 1 minute at battery mode or transfer to bypas when the utility is normal. >130% : UPS shuts down after 3 seconds at battery mode or transfer to bypas when the utility is normal.		
TRANSFER TIME			
AC MODE TO BATTERY MODE	Zero		
INVERTER TO BYPASS	<4ms(Typical 2.5ms)		
WAVEFORM(BATTERY MODE)	Pure Sine Wave		
EFFICIENCY	85%~92%		
BATTERY			
DC VOLTAGE	36VDC/IB(3Battery 7AH inside)	72VDC/IB(6Battery 7AH inside)	72VDC/IB(6Battery 7AH inside)
TYPE AND NUMBERS	SMF/Lead Acid/Tubular depending on the capacity of the External Batteries		
CHARGE CURRENT	1.5A~9.5A		
CHARGING CURRENT(Adjustable)	2.0A/4.0A/6.0A/8.0A(Maximum) Selectable via LCD setting		
PHYSICAL			
DIMENSIONS PRODUCT(LxWxH)	397x145x220 (in mm)	421x190x318 (in mm)	421x190x318 (in mm)
NET WEIGHT PRODUCT(KGS.)	7.8 Kgs./IB-12.5Kgs.)	12.10 Kgs./IB-25.8Kgs.)	12.52 Kgs./IB-27.0Kgs.)
ENVIRONMENT			
OPERATING HUMIDITY	20-95% RH@ 0-40°C(Non-Condensing)		
NOISE LEVEL	Less than 50dBA@1Meter(With Fan Speed Control)		
LED/LCD INDICATION	LCD Indications		
MANAGEMENT			
SMART RS-232 OR USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix, MAC		
OPTIONAL SNMP	Power Management from SNMP Manager and Web Browser		