



POWER LOGIC®

KOSS UPS

True On Line UPS

www.KossUPS.com.my

MAXTRON

EP SERIES 1000- 3000VA



Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V ~ 300Vac) and frequency range (40 ~ 70Hz)
- Auto sensing frequency
- 50/60Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, 12A charger (2-3KVA only) and built-in isolation transformer



Malaysia



UK



USA



Korea





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Optional sockets



Rear Panel

1. Overcurrent Protection
2. AC Input
3. Modem/Tel/Fax
4. DC Input
5. Outlet
6. Fan
7. RS232
8. USB (optional)
9. EPO (optional)
10. SNMP/AS400 (optional)



Model	MX-1000EP	MX-1000EPS	MX-2000EP	MX-2000EPS	MX-3000EP	MX-3000EPS
Capacity	1 KVA / 900 Watts		2 KVA / 1800 Watts		3 KVA / 2700 Watts	
INPUT						
Rated voltage	208 V / 220 V / 230 V / 240 VAC ± 25%					
Voltage range	176 ~ 280 VAC (no derating); 280 ~ 300 VAC (derating 50%)					
Frequency	40 ~ 70 Hz (auto-sense)					
Power factor	≥ 0.99					
Bypass voltage range	-25% ~ +15%					
OUTPUT						
Voltage	208 V / 220 V / 230 V / 240 VAC					
Voltage regulation	± 1%					
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)					
Waveform	Sinusoidal					
Crest factor	3:01					
Harmonic distortion	≤ 2% (linear load); ≤ 5% (non-linear load)					
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 0.2 ms (typical)					
Overload capability	105% ~ 125%: transfer to bypass in 1 min; 125% ~ 150%: transfer to bypass in 30 s; > 150%: transfer to bypass in 300 ms					
EFFICIENCY						
Mains mode	≥ 90%		≥ 91%		≥ 92%	
Battery mode	≥ 85%		≥ 86%		≥ 87%	
ECO mode	≥ 95%		≥ 96%		≥ 97%	
BATTERIES						
DC voltage	24 V	36 V	48 V	72 V	72 V	96 V
Inbuilt battery	2x9 Ah	/	4x9 Ah	/	6x9 Ah	/
Charging current (max.)	1A	6A	1A	6A	1A	6A
Recharge time	8 hours					
ALARMS						
Utility failure	4 s per beep					
Low battery	1 s per beep					
Overload	1 s twice beep					
UPS fault	Long beep					
COMMUNICATIONS						
RS232 (standard) / USB (optional)	Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / Windows® 7 / 8 / 10					
SNMP (optional)	Power management from SNMP manager and web browser					
OTHERS						
Operating temperature	0 ~ 40°C					
Relative Humidity	0 ~ 90% (non-condensing)					
Noise level	≤ 50 dB (1m)					
Dimensions (WxDxH) (mm)	144x336x214		191x418x335		191x418x335	
Net weight (kg)	9.5	6	18	10.5	27.2	11
Gross weight (kg)	10.5	7	19.5	12	29	12.5

* Specifications are subject to change without prior notice.

* Custom-made specifications are acceptable.



ISO 9001 CERTIFIED COMPANY



Long Backup

AVR

Line Surge Protector

Tel / Modem Port

Software

Affordable

User Friendly