

MAXTRON MX SERIES

10kVA - 20kVA



Multiple Functions
Settable via LCD



Features

- Advanced DSP and 3-Level Technology
- Output Power Factor 1.0
- Active Power Factor Correction (APFC), Input Power Factor Up to 0.99
- High Efficiency 95% (Up to 98% in ECO Mode)
- Advanced Digital Parallel Technology
- 3:1 to 1:1 Model Settable
- Wide Input Voltage Range (190 ~ 499Vac) and Frequency Range (40 ~ 70Hz)
- 50 / 60Hz Frequency Auto Sensing
- Two Modes of Frequency Conversion: 50Hz Input / 60Hz Output or 60Hz Input / 50Hz Output
- Dual-Input Design, Supporting Independent Bypass
- Flexible Battery Configuration (Settable 16 - 20pcs Batteries)
- Digitally Controlled Charger
- High Charging Current Available (Max. 10A)
- Charging Voltage and Current Configured by Demands
- Linear Derating In Low Voltage Input Reducing Battery Discharging Times, extending The Service Life of Battery
- Intelligent Battery Management, Automatic Floating / Equalizing Charge Control, Charger Dormancy Control, Increasing Battery Life by 50%
- Ability to Switch On The UPS With Batteries
- Settable Delayed Start Time When Mains Power is Restored, Reducing the Impact on Power Grid or Generator
- Fan Speed Varies Intelligently With Temperature, Reducing Noise and Extending its Service Life
- Equipped With Self-aging Function
- Compact Internal Layout, Miniaturized the Complete Unit for Small Footprint
- LCD + LED Display, Multi-functional Keys Operation, Friendly Human-Machine Interface
- Powerful Background Software for Parameters Configuration
- Advanced Multi-platform Communications: RS232, USB, RS485, SNMP and Dry Contacts Communication Interfaces
- Effective Software and Hardware Protection Function, Robust Self-diagnostic Function, and Abundant Event Log for Check

Available Options

- RS232 and Smart Card Slot Included
- Optional Parallel Function, Battery Temperature Compensation, SNMP Card, USB, RS485 Card, Dry Contacts, EMD and SMS Alarms

TRUE ON LINE 3 PHASE UPS

MAXTRON MX SERIES EP/EPS SERIES (3P/1P)

Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover



10 kVA (H)

5/20 kVA (H)

10 kVA (S)

MODEL	MX-10000EP/EPS (3/1)	MX-15000EP/EPS (3/1)	MX20000EP/EPS (3/1)
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)		
Rated frequency	50 / 60 Hz (auto-sensing)		
Frequency range	40 ~ 70 Hz		
Power factor	≥ 0.99		
Bypass voltage range	- 40% ~ +15% (settable)		
Total harmonic distortion (THDi)	≤ 5%		
OUTPUT			
Output wiring	Single-phase three-wire (1Φ + N + PE)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	± 1%		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s		
BATTERIES			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of battery	16 pcs (16 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 9 Ah × 16	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode		
Transfer time	0 ms		
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
Max. number of parallel connections	4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
OTHERS			
Operating temperature	0°C ~ 40°C		
Storage temperature	-25°C ~ 55°C (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1 m	≤ 58 dB		
Dimensions (W × D × H) (mm)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)	
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (S) 318 × 617 × 475 (H)	285 × 593 × 618 (H)	
Net weight (kg)	64 (S) 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S) 20 (H)	28 (H)	

● 3 : 1 means three-phase input and single-phase output mode; 1 : 1 means single-phase input and single-phase output mode

● All specifications subject to change without notice.
● Custom-made specifications are acceptable



POWER LOGIC

No. 2-10, Jalan Kenari 12B, Bandar Puchong Jaya, 47100 Puchong, Selangor Darul Ehsan. Tel: (603) 8070 5899 Fax: (603) 8070 2799 E-mail: enquiry@KossUPS.com.my