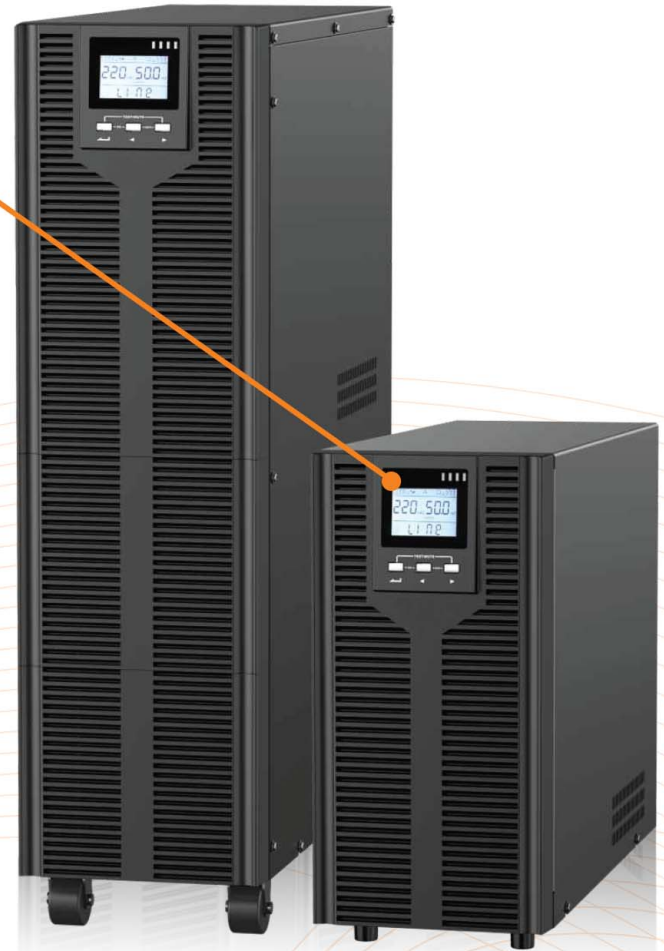


MAXTRON MX-EP SERIES

6kVA - 10kVA



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
- Wide Input Voltage Range (110 ~ 288Vac) 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. 12A)
- 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

MAXTRON MX-EP SERIES

Rear Panel

- | | |
|-------------------------------------|---|
| 1. RS232 | 7. Reserved: For Manual Bypass or Battery Breaker or Outlets ect. |
| 2. EPO | 8. Fans |
| 3. Parallel Port (optional) | 9. Bypass Breaker |
| 4. USB (optional) | 10. Input Breaker |
| 5. Temperature Detection (optional) | 11. GND |
| 6. Intelligent Slot | 12. Terminals and Cover |



6/10 kVA (H)



6/10 kVA (S)

MODEL	Maxtron MX 6KEP/KEPS	Maxtron MX 10KEP/KEPS
Capacity	6 kVA / 6 kW	10 kVA / 10 kW
INPUT		
Input wiring	Single-phase three-wire (1 Φ + N + PE)	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 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)	$\leq 5\%$	
OUTPUT		
Output wiring	Single-phase three-wire (1 Φ + N + PE)	
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage regulation	$\pm 1\%$	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total harmonic distortion (THDv)	$\leq 1\%$ (linear load); $\leq 4\%$ (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 / 7 Ah \times 16	12 V / 9 Ah \times 16
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional)	
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
SYSTEM		
Efficiency	$\geq 94\%$ at 100% load, max. 95% at 60% load, $\geq 98\%$ 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	≤ 55 dB	≤ 58 dB
Dimensions (W \times D \times H) (mm)	191 \times 465 \times 711 (S), 191 \times 465 \times 350 (H)	191 \times 495 \times 711 (S), 191 \times 495 \times 350 (H)
Packaged dimensions (W \times D \times H) (mm)	310 \times 654 \times 941 (S), 318 \times 595 \times 475 (H)	310 \times 685 \times 941 (S), 318 \times 617 \times 475 (H)
Net weight (kg)	53 (S), 14.5 (H)	62 (S), 16.5 (H)
Gross weight (kg)	61 (S), 16 (H)	70 (S), 18 (H)

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

