ONLINE UPS
PLMT SERIES
6-10kVa

The PLMT Series 6-10kVA is a compact, double-conversion online UPS designed to deliver stable, uninterrupted power for home, office, and light industrial use. With advanced DSP control and true VFI operation, it ensures maximum protection against power outages, surges, and fluctuations.

Offering high efficiency up to %98 in ECO mode and active power factor correction, it balances performance with energy savings. Its flexible battery configuration, intelligent charging, and wide input range make it a smart, adaptable choice for sensitive electronics and critical systems.

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Online UPS PLMT SERIES 6-10kVA

GENERAL SPECIFICATIONS —

- 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 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Ability to switch on the UPS with batteries
- Equipped with self-aging function
- Powerful background software for parameters configurat
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- 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 extendin its service life
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- 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
- RS232 and smart card slot included
- SNMP card, USB, RS485 card, dry contacts

Online UPS PLMT SERIES

Advanced DSP and 3-Level Technology

Advanced Digital Parallel Technology

Auto Sensing Frequency

ECO FRIENDLY

SERVICE / TECH. SUPPORT

TOWER FORM FACTOR

1.0 POWER FACTOR

VFI Type   UPS ONLINE

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Online UPS PLMT SERIES 6-10kVA

TECHNICAL SPECIFICATIONS

MODEL	PLMT+ 106	PLMT+ 110
Capacity	6 kVA / 6000 W	10 kVA / 10000 W
INPUT		
Input wiring	Single-phase three-wire (1Φ + 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)	≤ 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	1.0	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30s	
BATTERIES		
DC voltage	192 Vdc (192 ~ 240 Vdc settable)	
Number of battery	16 pcs (16 ~ 20 settable)	
Inbuilt battery (standard model)	12V / 7Ah × 16	12V / 9Ah × 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	≥ 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. num 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 1m	≤ 55 dB	≤ 58 dB
Dimensions (HxWxD) (mm)	711x191x465 (S), 350x191x465 (XL)	711x191x495 (S), 350x191x495 (XL)
Packaged dim. (HxWxD) (mm)	941x310x654 (S), 475x 318x595 (XL)	941x310x685 (S), 475x318x617 (XL)
Net weight (kg)	53 (S), 14.5 (XL)	62 (S), 16.5 (XL)
Gross weight (kg)	61 (S), 16 (XL)	70 (S), 18 (XL)

* S means standard model; XL means long time model.

* All specifications are subject to change without notice.

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