ONLINE UPS PLMT SERIES 1-3kVA

The PLMT Series 1-3kVA 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. Featuring a wide input voltage range (110–300V) and auto-sensing frequency (40–70Hz), it adapts seamlessly to unstable power conditions.

High efficiency up to %97 in ECO mode, active power factor correction (PF ≥ 0.99), and flexible battery configurations (24V–96V) make it ideal for sensitive electronics. Additional features include cold start capability, multi-platform communication (RS232/USB/SNMP), and settable parameters via LCD for tailored performance.

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Online UPS PLMT SERIES 1-3kVA

GENERAL SPECIFICATIONS

- High frequency on-line double conversion technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.99
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- 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 4h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- 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)
- EPO function, and 12 A charger (2/3 kVA only) (optional)

Online UPS PLMT SERIES

Advanced Battery Management

Auto Sensing Frequency

DSP Control Technology

ECO FRIENDLY

PLUG AND PLAY

TOWER FORM FACTOR

0.99 POWER FACTOR

VFI Type UPS ONLINE

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Online UPS PLMT SERIES 1-3kVA

TECHNICAL SPECIFICATIONS

MODEL	PLMT+ 106		PLMT+ 106		PLMT+ 110		
Capacity	1 kVA/900 W		2 kVA/1800 W		3 kVA/2700 W		
INPUT							
Rated voltage	208 / 220 / 230 / 240 Vac						
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)						
Frequency range	40 ~ 70 Hz (auto-sensing)						
Power factor	≥ 0.99						
Bypass voltage range	- 40% ~ +15% (settable)						
Total harmonic distortion (THDi)	≤ 6%						
OUTPUT							
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)						
Voltage regulation	± 1%						
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)						
Waveform	Sinusoidal						
Power factor	0.99						
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)						
Crest factor	3:1						
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms						
BATTERIES							
DC voltage	24V (S)		36V (XL)	48V (S)	48 / 72V (XL)	72V (S)	96V (XL)
Inbuilt battery	2x7Ah	2x7Ah	/	4x9Ah	/	6x9Ah	/
Inbuilt battery (standard model)	1A		6A	1A	6A	1A	6A
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery						
SYSTEM							
Efficiency	≥ 90% (Mains mode)			≥ 91% (Mains mode)		≥ 92% (Mains mode)	
	≥ 85% (Battery mode)			≥ 86% (Battery mode)		≥ 87% (Battery mode)	
	≥ 95% (ECO mode)			≥ 96% (ECO mode)		≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)						
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection						
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)						
Display	LCD + LED						
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3						
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	≤ 50 dB						
Dimensions (HxWxD) (mm)	216x144x312		216x144x336	216x144x417	335x191x418	335x191x419	335x191x418
Packaged dim. (HxWxD) (mm)	315x230x402		318x232x417	315x230x506	471x318x533	435x277x500	435x277x500
Net weight (kg)	10.4	11	6	16.4	10.5	24.3	11
Gross weight (kg)	10.7	11.3	7	17.8	12	25.9	12.5

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