



ONLINE UPS PLMT SERIES 10-80kVa

The PLMT Series 10-80kVA is a high-performance, three-phase online UPS leveraging DSP technology and 3-level IGBT rectification for industrial and large-scale applications. With true double-conversion and split bypass functionality, it guarantees zero transfer time and pure sinewave output (PF 1.0), ensuring critical systems remain operational.

Designed for scalability, it supports parallel operation (up to 4 units) and offers dual inputs, wide voltage/frequency ranges (110–300V, 46–64Hz), and adjustable battery designs for extended backup. Efficiency reaches %98.5 in ECO mode, while features like a powerful charger, touchscreen LCD, and voice notifications enhance usability. Compliant with stringent standards, it is suited for data centers, medical facilities, and industrial environments.

GENERAL SPECIFICATIONS —

- DSP technology guarantees high performance
- Output power factor 1.0
- Active power factor correction in all phases
- Dual Inputs
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Emergency power off function (EPO)
- Adjustable charging current
- IGBT rectifier and EMI/RFI filtering feature
- Very powerful charger
- Optional parallel operation with common battery
- High overload capability
- Adjustable battery design
- Optional 4.3" touch LCD



Online UPS PLMT SERIES



DSP Technology

3-Level Technology

Split By-pass



USB



SERVICE / TECH. SUPPORT



TOWER FORM FACTOR

1.0

POWER FACTOR

VFI
Type

UPS ONLINE

TECHNICAL SPECIFICATIONS

MODEL		PLMT 310	PLMT 320	PLMT 330	PLMT 340	PLMT 360	PLMT 380
Phase		3 phase in / 3 phase out					
Capacity		10kVA / 10kW	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW	60kVA / 60kW	80kVA / 80kW
Parallel capability		up to 4 units in parallel					
INPUT							
Nominal voltage		3x400VAC (3P+N)					
Input voltage range		110-300VAC ±3% @ 50% load 176-276VAC ±3% @ 100% load					
Voltage range		110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)					
Frequency range		46~54Hz or 56~64Hz					
Harmonic distortion		≤ 4 % THD (100% Linear Load)					
Power factor		≥ 0.99 @ 100% load					
OUTPUT							
Voltage		3 x 360/380/400/415 VAC (3P+N)					
AC Voltage regulation		± 1% (batt.mode)					
Frequency range (sync. range)		46~54Hz or 56~64Hz					
Frequency range (batt. mode)		50Hz ± 0.1Hz or 60Hz ± 0.1Hz					
Crest factor		3:1					
Crest factor		≤ 2 % THD (Linear Load) ≤ 5 % THD (Non-linear load)					
Transfer time	AC mode to batt. mode	Zero					
	Inverter to bypass	Zero					
Waveform (batt. mode)		Pure sinewave					
Overload	AC mode	100-110% for 60 min,110-125%for 10 min, 125%~150% 1 min, >150%immediately					
	Battery mode	100-110% for 60 min,110-125%for 10 min, 125%~150% 1 min, >150%immediately					
BYPASS							
Nominal voltage		3 x 360/380/400/415 VAC (3P+N)					
Voltage range		% -30~+20% (Adjustable)					
Frequency range (sync. range)		46~54Hz or 56~64Hz					
Overload		>%130 1 minute (default); continuously working until breaker protection (optional)					
EFFICIENCY							
AC mode		95.5%					
Eco mode		98.5%					
Battery mode		94.5%					
BATTERIES							
Battery type		Depends on the application					
Number of batteries		20 pcs internal	32 pcs (can be extended with external cabinet)	32-40 pcs (adjustable)			
Charge current (max.)		1-12A (adjustable)				2-24A (adjustable)	
Charging voltage		± 136.5 VDC ±%10	± 218 VDC ± %10	±13.65VxN (N = 16~20)			
INDICATORS							
LCD panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
PHYSICAL							
Dimension HxWxD (mm)		630x250x826		1000x300x815		1010x360x790	
Net weight (kg)		124 (with internal batt.)	139 (with internal batt.)	60	61	108	113
ENVIRONMENT							
Dimension HxWxD (mm)		0°C - 40°C					
Net weight (kg)		< 95% (non-condensing)					
Net weight (kg)		< 60dBA @ 1 Meter	< 63dBA @ 1 Meter	< 65dBA @ 1 Meter	< 70dBA @ 1 Meter		< 75dBA @ 1 Meter
MANAGEMENT							
Dimension HxWxD (mm)		Supports Windows® 2000/2003/XP/Vista/2008, 7/8, Linux and MAC					
Net weight (kg)		Power management from SNMP manager and web browser					
(*) If the output voltage is set to 3x360 VAC, the output power of the unit will be reduced to 90%							

(*) If the output voltage is set to 3x360 VAC, the output power of the unit will be reduced to 90%