



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% | | | | | | | |

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