

PROLINE TOWER ONLINE UPS



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(6–20 kVA, Single-Phase, External Battery)

The **QUANT PROLINE Tower Online UPS (External Battery Type)** is a high-reliability power protection solution designed for mission-critical environments where long backup time, high efficiency, and stable output are essential.

With online double-conversion and full digital control, the system ensures uninterrupted power delivery to sensitive loads even during severe utility fluctuations.

This series supports external battery banks (16–24 pcs adjustable), providing flexible backup time for various applications.



KEY FEATURES

- **True Online Double-Conversion Technology**
Ensures pure, stable, and isolated output with zero transfer time.
- **High Output Power Factor = 1.0**
Supports full-rated kW load with maximum efficiency and compatibility with modern IT equipment.
- **Wide Input Voltage Range**
Ensures stable operation even in unstable electrical environments.
- **Advanced 3-Level Inverter Topology**
Higher efficiency, lower heat generation, extended component life.
- **Intelligent Battery Management (IBM)**
Optimized charging control, longer battery lifespan, and automatic battery self-test.
- **Adaptive Half-Wave Load Support**
Capable of handling non-linear and computer-grade loads.
- **Digital Control Platform**
Full DSP control ensures reliability, fast response, and high efficiency.
- **Automatic Fault Waveform Recording**
Helps technicians with diagnostics and root-cause analysis.
- **Self-Aging Function**
Internal self-test without external load to reduce testing energy and time.
- **Flexible External Battery Configuration**
16–24 pcs adjustable for different backup time requirements

PROLINE TOWER ONLINE UPS



TECHNICAL SPECIFICATIONS

| MODEL | PL-T006-X | PL-T010-X | PL-T015-X | PL-T020-X |
|---------------------------|---|--------------------------|------------|------------|
| Rate Power | 6kVA/6kW | 10kVA/10kW | 15kVA/15kW | 20kVA/20kW |
| Cold start | Default output 50/60Hz | | | |
| Input voltage range | 110~288VAC (220/230/240VAC); 176VAC~288VAC,full load;176~110 VAC ,power derate from 100% to 50% | | | |
| Input power factor | ≥0.99 | | | |
| Frequency range | 40-70Hz | | | |
| Output frequency | 50/60Hz, self adaption | | | |
| Output power factor | 1 | | | |
| Rate output | 220/230/240VAC | | | |
| Load regulation | ±1% | | | |
| Output THDu | ≤1%THD, linear load; ≤5%THD, non-linear load | | | |
| Transfer time-main to BAT | 0ms | | | |
| Transfer time-INV to BYP | 0ms | | | |
| Efficiency-normal mode | Max 95% | | | |
| Efficiency-ECO mode | 0.98 | | | |
| Noise (1 meter) | 58dB | | 62dB | |
| Battery | Model | External, 16-24 settable | | |
| | Quantity | | | |
| | Max charging | 5A | | |
| | Rate voltage | Default 192VDC, settable | | |

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|-----------------------|---|-------------|-------------|-----------|
| Crest | 3:1 | | | |
| Display | LED+LCD | | | |
| Standard | RS232, EPO, RS485 | | | |
| Option | AS400, SNMP card, Parallel kit, Maintenance bypass kit, 12A charger, Air filter | | | |
| Dimension, W*D*H (mm) | 190*605*338 | 190*605*338 | 190*564*500 | |
| Weight (kg) | 14 | 16 | 30 | |
| Certifications | CE | | | |
| Country of Origin | Malaysia | | | |
| Warranty | 2 years | | | |

OPTIONS & ACCESSORIES

- SNMP Network Management Card
- AS400 Dry Contact Card
- Parallel Operation Kit
- External Battery Cabinets
- High-Current 12A Charger Module
- Dust/air filter kit
- Maintenance Bypass Switch (MBS)

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APPLICATIONS

- Government & Ministries
- Banking & Financial Institutions
- IT Networks & Data Rooms
- Education Facilities
- Healthcare & Medical Diagnostic Equipment
- Broadcasting & Communication
- Transportation Systems
- Energy & Utility Infrastructure

TYPICAL APPLICATIONS

- Server Rooms & Edge Data Centers
- Access Control & CCTV Systems
- Industrial Control Panels
- Medical Diagnostic Equipment
- Emergency Communication Infrastructure
- Building Management Systems (BMS)
- Banking ATMs & Payment Systems
- Power Backup for IoT & Smart Building Solutions

ORDERING INFORMATION

| Model | Description |
|-----------|---|
| PL-T006-X | QUANT PROLINE Tower Online UPS 6kVA (External Battery) |
| PL-T010-X | QUANT PROLINE Tower Online UPS 10kVA (External Battery) |
| PL-T015-X | QUANT PROLINE Tower Online UPS 15kVA (External Battery) |
| PL-T020-X | QUANT PROLINE Tower Online UPS 20kVA (External Battery) |

