

QUANT SMART TOWER ONLINE UPS



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1–3kVA | Single-Phase | Online Double Conversion

The **Quant Smart Tower Online UPS (1–3kVA)** is a highly reliable, single-phase uninterruptible power supply designed to deliver continuous, clean, and stable power for mission-critical applications.

With true online double-conversion topology, the UPS ensures zero transfer time and provides consistent protection for IT equipment, servers, ELV systems, security networks, industrial controls, and sensitive electronics.

Offering a wide input voltage range (110–300Vac), output power factor of 1.0, and high charging current capability up to 12A, the Quant Smart Tower series provides superior performance and long-term reliability in demanding environments.



KEY FEATURES

- True Double-Conversion Online Technology for continuous high-quality power.
- Output Power Factor = 1.0, delivering full kW output.
- High Efficiency up to 96% to minimize energy consumption.
- Wide Input Voltage Window: 110–300Vac, ideal for unstable grids.
- High Battery Charging Current (up to 12A) for faster recharge.
- Zero Transfer Time on power failure.
- Advanced LCD Display for real-time system monitoring.
- Intelligent Battery Management to maximize battery life.
- Auto & Manual Bypass for uninterrupted operation.
- Comprehensive Protections including overload, short circuit, surge, overheating, and deep discharge.
- Flexible Communication Ports: USB, RS232, optional SNMP/AS400/RS485.
- Compatible with External Battery Packs for extended runtime.

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TECHNICAL SPECIFICATIONS

| MODEL | SMT-T001-I | SMT-T01.5-I | SMT-T002-I | SMT-T003-I | |
|-----------------------|---|--|--------------|--------------------------------|--------------------------------|
| Rate Power | 1kVA/1kW | 1.5kVA/1.5kW | 2kVA/2kW | 3kVA/3kW | |
| Cold start | Default output 50/60Hz | | | | |
| Input voltage range | 110~300VAC;100% load@176VAC~276VAC, 100%~50% power derating@110VAC~176VAC, 50% load@276VAC~300VAC | | | | |
| Input power factor | ≥0.99 | | | | |
| Frequency range | 50/60±5Hz(default), ±3Hz/±10Hz(settable) | | | | |
| Output power factor | 1.0 | | | | |
| Output | Rate voltage | 220/230/240VAC,200/208VAC(PF=0.9) | | | |
| | Load response | ≤5% (0% - 100% -0%) | | | |
| | Recovery time | ≤40ms (0% - 100% -0%) | | | |
| | Output THDu | ≤2% , Linear load ; ≤ 5% non-linear load according to IEC62040-3 | | | |
| | Socket (option) | IEC, Schuko, NEMA, South Africa, UK | | | |
| Battery | Quantity | 2(12VDC*9Ah) 3(12VDC*7/9Ah) | 3(12VDC*9Ah) | 4(12VDC*9Ah) 6(12VDC*7/9Ah) | 6(12VDC*9Ah) 8(12VDC*7/9Ah) |
| | Max charging | 1A | | | |
| | Rate voltage | 24/36VDC | 36VDC | 48/72VDC | 72/96VDC |
| Standard | EPO, RS232 | | | | |
| Option | SNMP card, AS400, USB, RS485, Air filter | | | | |
| Dimension ,W*D*H (mm) | 144*355*226 | | 190*400*328 | 190*400*328 | |
| Weight (kg) | 10.5 | | 20.5 | 25.0 | |

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OPTIONS & ACCESSORIES

- External Battery Pack (EBP)
- SNMP Network Management Card
- AS400 Relay Interface Card
- RS485 Communication Module
- Dustproof Air Filter
- Rack/Tower Conversion Kit

APPLICATIONS

- Government and Public Sector
- Banking & Financial Institutions
- IT Servers and Network Equipment
- CCTV, NVR, Access Control, and ELV Systems
- Data Centers and Edge Computing
- Transportation & Infrastructure
- Healthcare and Laboratory Equipment
- Telecommunications and Broadcasting
- Industrial Automation
- Corporate Offices & Education Facilities

ORDERING INFORMATION

| Model | Description |
|------------|-------------------------------------|
| SMT-T001-I | Quant Smart Tower Online UPS 1kVA |
| SMT-T015-I | Quant Smart Tower Online UPS 1.5kVA |
| SMT-T002-I | Quant Smart Tower Online UPS 2kVA |
| SMT-T003-I | Quant Smart Tower Online UPS 3kVA |