

SMART TOWER ONLINE UPS



SMART TOWER ONLINE UPS (1-3kVA)

External Battery Long-Run

The **Quant Smart Tower Online UPS Long-Run** (1-3 kVA) is a high-performance, single-phase uninterruptible power supply designed for extended backup applications using external battery banks.

With true online double-conversion topology, the system provides continuous, clean, and stable power to critical loads, ensuring zero transfer time during power disturbances.

This long-run model is ideal for environments requiring flexible backup autonomy, high overload capability, and efficient protection for sensitive IT, security, industrial, and enterprise systems.



KEY FEATURES

- Online Double Conversion for continuous, pure sine-wave output.
- Long-Run Design with External Battery Packs for extended runtime.
- Wide Input Voltage Range: 110-300 VAC for harsh power conditions.
- Output Power Factor = 1.0, providing full kW capacity.
- High Charging Current (1-12A adjustable) to support large battery banks.
- High Efficiency up to 96% for optimal energy performance.
- Zero Transfer Time between power modes.
- Advanced Protection: overload, short circuit, surge, battery deep-discharge.
- Selectable Battery Charging Parameters to match battery capacity.
- User-friendly LCD Display for real-time system information.
- Optional SNMP / RS485 / AS400 interfaces for monitoring and integration.

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TECHNICAL SPECIFICATIONS

MODEL		SMT-T001-X	SMT-T002-X	SMT-T003-X
Rate Power		1kVA/1kW	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		
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		
Transfer time	Main to BAT	0		
	INV to BYP	4ms		
Crest factor		3:1		
Efficiency (normal mode)		Max 96%		
Noise (1 meter)		43dB@<60%load, 47dB@>60%load	<50dB@<60%load,<55dB@>60%load	<50dB@<60%load,<55dB@>60%load
Overload	Normal	102%~110%: 30mins, 110%~125%:10mins, 125%~150%: 30 seconds		
	Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%:5 seconds		
	Bypass mode	<130%: long time, 130%~150%:10mins, 150%~180%:5 seconds		

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TECHNICAL SPECIFICATIONS

MODEL		SMT-T001-X	SMT-T002-X	SMT-T003-X
Battery	Quantity	Depends on external battery		
	Max charging	1-12A(optional)		
	Rate voltage	24/36VDC	48/72VDC	72/96VDC
Standard		EPO, RS232		
Option		SNMP card, AS400, USB, RS485, Air filter		
Dimension ,W*D*H (mm)		144*355*226		
Weight (kg)		4.5	6	6
Certifications		CE		
Country of Origin		Malaysia		
Warranty		2 years		

OPTIONS & ACCESSORIES

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

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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-X	Quant Smart Tower Online UPS 1kVA (Long-Run)
SMT-T002-X	Quant Smart Tower Online UPS 2kVA (Long-Run)
SMT-T003-X	Quant Smart Tower Online UPS 3kVA (Long-Run)

