

SMART RACK ONLINE UPS (1–3 kVA)



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Rack-Mountable | Single-Phase | Online Double Conversion

The **Quant Smart Rack Online UPS (1–3kVA)** is a high-efficiency, compact, rack-mountable uninterruptible power supply system that ensures uninterrupted, clean, and stable power for sensitive applications.

Designed with true online double-conversion topology, the UPS provides zero transfer time and complete isolation from input disturbances. It is ideal for rack-based IT infrastructure, data centers, telecom systems, and security equipment.

This UPS features a wide input voltage range (110–300 VAC), unity output power factor (1.0), and high battery charging capability (up to 12A) for maximum runtime flexibility.



KEY FEATURES

- True Online Double-Conversion Architecture
- Rack-mount 2U Design for Space-Constrained Installations
- Wide Input Voltage Window: 110–300Vac
- High Output Power Factor = 1.0 (kVA = kW)
- High Efficiency up to 96%
- Fast Recovery Time $\leq 40\text{ms}$
- LCD Display with Real-Time Monitoring
- Built-in Surge, Overload, Short-Circuit Protection
- Hot-Swappable Battery Design
- SNMP/RS485/AS400 Interface Options

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TECHNICAL SPECIFICATIONS

MODEL		SMT-R001-I	SMT-R01.5-I	SMT-R002-I	SMT-R003-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			
Output	Rate voltage	220/230/240VAC, 200/208VAC(PF=0.9)			
	Load response	≤5% (0% - 100% -0% step load)			
	Recovery time	≤40ms (0% - 100% -0% step load)			
	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			
Efficiency (normal mode)		Max 96%			
Noise (1 meter)		43dB@<60%load, 47dB@>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-R001-I	SMT-R01.5-I	SMT-R002-I	SMT-R003-I
Battery	Quantity	2(12VDC*9Ah) 3(12VDC*7/9Ah)	3(12VDC*7Ah)	4(12VDC*9Ah) 6(12VDC*7/9Ah)	6(12VDC*7/9Ah)
	Max charging	1A	1A	1A	1A
	Rate voltage	24/36VDC	36VDC	48/72VDC	72VDC
Standard		EPO, RS232			
Option		SNMP card,AS400, USB, RS485, Air filter			
Dimension ,W*D*H(mm)		440*440*86			
Weight (kg)		10.1/12.5	12.5	19	21
Certifications		CE			
Country of Origin		Malaysia			
Warranty		2 years			

OPTIONS & ACCESSORIES

- SNMP Network Management Card
- RS485 Communication Module
- AS400 Dry Contact Card
- Dustproof Air Filter
- Rack Mount Kits & Battery Expansion

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APPLICATIONS

- Data Centers & Edge Infrastructure
- IT Servers & Networking Equipment
- CCTV, NVRs, Access Control Systems
- Medical & Diagnostic Equipment
- Government & Financial Institutions
- Telecom, Broadcasting, and ISP Nodes
- Education & Learning Facilities
- Industrial Automation & Instrumentation

ORDERING INFORMATION

Model	Description
SMT-R001-I	Quant Smart Rack UPS – 1kVA / 1kW
SMT-R01.5-I	Quant Smart Rack UPS – 1.5kVA / 1.5kW
SMT-R002-I	Quant Smart Rack UPS – 2kVA / 2kW
SMT-R003-I	Quant Smart Rack UPS – 3kVA / 3kW

