

SMART RACK ONLINE UPS (1–3 kVA)



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External Battery Long-Run

The **Quant Smart Rack Online UPS Long-Run** (1–3 kVA) is a high-efficiency, single-phase uninterruptible power system designed for critical applications requiring clean and stable power with extended backup duration through external battery banks.

Featuring true online double-conversion topology, the UPS ensures continuous, seamless output with zero transfer time during power disturbances.

The rack-mount design provides compact installation for server rooms, ELV systems, data cabinets, and centralized power environments.

This long-run is ideal for demanding applications requiring high reliability, wide input voltage compatibility, unity power factor output, and strong load adaptability.



KEY FEATURES

- Online Double Conversion architecture providing pure, stable output.
- Long-Run Design supporting external battery packs for extended autonomy.
- Wide Input Voltage Range: 110–300 VAC for challenging grid conditions.
- Output Power Factor = 1.0 (full kW capacity).
- High Charging Current (1–12A adjustable) compatible with large battery banks.
- High Efficiency up to 96% reduces energy consumption.
- Zero Transfer Time ensures uninterrupted power when switching modes.
- Advanced Electrical Protection for overload, short circuit, surge, and battery deep-discharge.
- Selectable Charging Parameters to match different battery capacities.
- Rack-mount 2U compact design suited for IT and ELV cabinets.
- Optional SNMP / RS485 / AS400 for network monitoring and system integration.

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TECHNICAL SPECIFICATIONS

MODEL		SMT-R001-X	SMT-R015-X	SMT-R002-X	SMT-R003-X
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			
Battery	Quantity	Depend on external battery	Depend on external battery	Depend on external battery	Depend on external battery
	Max charging	1-12A(optional)	1-12A(optional)	1-12A(optional)	1-12A(optional)
	Rate voltage	24/36VDC	36VDC	48/72VDC	72VDC

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TECHNICAL SPECIFICATIONS

MODEL	SMT-R001-X	SMT-R01.5-X	SMT-R002-X	SMT-R003-X
Standard	EPO, RS232			
Option	SNMP card,AS400, USB, RS485, Air filter			
Dimension ,W*D*H(mm)	440*440*86			
Weight (kg)	7	7	7	10
Certifications	CE			
Country of Origin	Malaysia			
Warranty	2 years			

OPTIONS & ACCESSORIES

- External Battery Pack (EBP)
- SNMP Network Management Card
- AS400 Relay Card
- RS485 Communication Module
- Dustproof Air Filter
- Rack installation kit
- Extended-run battery cabinet

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APPLICATIONS

- Government facilities
- Banking & finance
- IT servers, network switches, storage systems
- CCTV, access control, and ELV systems
- Data cabinets & communication rooms
- Edge computing
- Medical and laboratory equipment
- Industrial automation & control
- Telecom & broadcasting
- Education and enterprise environments
- Transportation & energy sectors

ORDERING INFORMATION

Model	Description
SMT-R001-X	Quant Smart Rack Online UPS 1kVA (Long-Run)
SMT-R015-X	Quant Smart Rack Online UPS 1.5kVA (Long-Run)
SMT-R002-X	Quant Smart Rack Online UPS 2kVA (Long-Run)
SMT-R003-X	Quant Smart Rack Online UPS 3kVA (Long-Run)

