

QUANT PROLINE RACK ONLINE UPS



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High-Density Online Double Conversion UPS (6–20 kVA, Single-Phase, External Battery)

The **QUANT PROLINE Rack Online UPS** is a high-performance, single-phase power protection solution designed for mission-critical rack installations.

With true online double-conversion technology, 3-level inverter topology, and full digital DSP control, it ensures continuous, stable, and clean power for sensitive IT, ELV, medical, and industrial applications.

This external-battery version allows flexible runtime configuration using 16–24 pcs battery banks, while maintaining high power density and superior performance.



KEY FEATURES

- True Online Double Conversion
- Zero transfer time ensures uninterrupted protection against all power disturbances.
- High Power Density (up to 10 kW in 2U)
- Optimized for data center and enterprise rack environments.
- Output Power Factor = 1.0
- Delivers full rated kW for maximum load support.
- Advanced 3-Level Inverter Technology
- High efficiency, reduced heat, stable output performance.
- Wide Input Voltage Range
- Ensures reliable operation in unstable AC environments.
- Intelligent Battery Management (IBM)
- Smart charging, battery temperature compensation, and automatic battery self-test.
- Supports Half-Wave and Non-Linear Loads
- Suitable for IT servers, networking equipment, CCTV, and automation systems.
- Automatic Fault Waveform Recording
- Helps maintenance teams diagnose power events accurately.
- Self-Aging Function
- Internal simulation mode for UPS testing without external loads.

QUANT PROLINE RACK ONLINE UPS



TECHNICAL SPECIFICATIONS

Model	PL-R006-X	PL-R010-X
Rate Power	6kVA/6kW	10kVA/10kW
Cold start	Default output 50/60Hz	
Input voltage range	110~288VAC; 100% load@>176VAC; 90% load@>154VAC; 75% load@>132VAC; 50% load@>110VAC	
Input power factor	≥0.99	
Frequency range	40-70Hz	
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%)
	THDu	≤1%, linear load ;≤ 5% , non-linear load according to IEC62040-3
Transfer time-Main to Battery	0ms	
Transfer time-INV to BYP	0ms	
Crest factor	3:1	
Battery type	External battery	
Battery Number	16-24 PCS settable	

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TECHNICAL SPECIFICATIONS

Model		PL-R006-X	PL-R010-X
Battery voltage		Default 192VDC ,settable	
Max charging		5A	
Efficiency –normal mode		Max 95%	
Noise (1 meter)		<58dB	
Overload	Normal mode	105%~110%: 10mins,111%~125%: 1 min,126%~150%: 30 seconds	
	ECO mode	<125%: long time,126%~130%:5mins,131%~150%:1min,>150% :200ms	
Communication		RS232, EPO, RS485	
Option		AS400, USB, SNMP card, 12A charger, Parallel kit, Air filter	
Dimension W*D*H(mm)		440*580*86	
Weight(kg)		16 Kg	18 Kg
Country of Origin		Malaysia	
Certifications		CE	
Warranty		2 year	



OPTIONS & ACCESSORIES

- SNMP network management card
- AS400 dry contact card
- USB communication module
- Parallel operation kit
- High-current 12A charger
- Rack-mount battery cabinet
- Air filter kit

APPLICATIONS

- IT racks and data centers
- CCTV recording servers & ELV rooms
- Industrial automation racks
- Government and financial IT rooms
- Education and research facilities
- Medical diagnostic equipment
- Broadcasting & telecom systems
- Transportation & energy control centers

ORDERING INFORMATION

Model	Description
PL-R006-X	QUANT PROLINE Rack Online UPS 6kVA/6kW (External Battery)
PL-R010-X	QUANT PROLINE Rack Online UPS 10kVA/10kW (External Battery)