

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.
- Internal simulation mode for UPS testing without external loads.

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 years | |

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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) |

