

POWER EDGE ONLINE UPS



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*(10–60 kVA, 3-Phase Rack/Tower Convertible)
High-Density Online Double Conversion UPS*

The **QUANT POWER EDGE Series** is a high-performance, 3-phase online double-conversion UPS designed for mission-critical IT, data center, ELV, and industrial applications.

It supports 3P/3P, 3P/1P, and 1P/1P configurations, offering maximum flexibility for different power environments.

Designed for 19-inch rack installation, the system can also be deployed as a Rack and Tower UPS. With 30 kW in only 3U height, the series delivers exceptional power density and efficient operation, making it suitable for modern edge data centers and high-load applications.

A 7-inch smart touch LCD panel with IoT functionality provides advanced monitoring, control, and data visibility.



KEY FEATURES

- **True Online Double Conversion**
Provides continuous, stable, and clean power with zero transfer time.
- **Multi-Mode Flexible Configuration**
Supports 3P/3P, 3P/1P, and 1P/1P input/output combinations.
- **High Power Density: 30 kW in 3U**
Saves rack space and maximizes installation efficiency.
- **Rack or Tower Convertible**
Standard 19-inch rack mount or stand-alone tower installation.
- **7-Inch Touch LCD with IoT Functions**
Real-time monitoring, smart alarms, energy statistics, and remote access capability.
- **Advanced DSP Control**
Ensures fast response, high stability, and excellent reliability.
- **Strong Environmental Adaptability**
Wide input voltage and frequency tolerance, suitable for harsh power conditions.
- **High Efficiency (up to 97%)**
Reduces operating costs and heat generation.
- **Comprehensive Protection**
Overload, short-circuit, over-temperature, over-voltage, under-voltage, battery protection.

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TECHNICAL SPECIFICATIONS

MODEL		PE-R010-3X	PE-R015-3X	PE-R020-3X	PE-R030-3X
Rate Power		10kVA	15kVA	20kVA	30kVA
Main input	Input	3P5W (3P+N+PE)			
	Rate Voltage	380/400/415VAC(L-L) 220/230/240VAC(L-N)			
	Rate Freq.	50/60Hz			
	Input PF	>0.99			
	Current distortion	THDi<2%(100% Linear load)			
	Voltage range	304 478VAC(L-L)full load 304 228VAC (L-L) power derate from 100% to 50%			
	Freq. range	40-70Hz			
Battery	Rate voltage	±120VDC(default 20 PCS,20-50 PCS, selceted)	±240VDC(default 40 PCS,30-50 PCS, selceted)		
	Charging capacity	50%*Pout			
	Charging accuracy	±1%			
Bypass	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)			
	Voltage range	Range: -40%- +25% , Settable, default -20% +15%			
	Frequency range	50/60Hz Settable ±1Hz ±3Hz ±5Hz			
Inverter	Rate voltage	380/400/415VAC(L-L) 220/230/240VAC(L-N)			
	Rate Freq.	50/60Hz			
	Output PF	1			
	Voltage accuracy	±1.0%			

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TECHNICAL SPECIFICATIONS

MODEL		PE-R010-3X	PE-R015-3X	PE-R020-3X	PE-R030-3X
Inverter	Output THDu	<1% linear load ,<5% non-linear load according to IEC 62040-3			
	Overload	110%,1 hour 125%,10 mins 150%,1 min >150%,200ms			
	Frequency accuracy	0.10%			
	Synchronize window	Settable ±0.5Hz-±5Hz default ±3Hz			
	Slew rate	Settable 0.5Hz/S-3Hz/S default 0.5Hz/S			
	Crest factor	3:01			
	Phase Accuracy	120°±0.5°			
System	Efficiency	up to 97%			
	Display	LED + 7 inch touch LCD			
	Certification- Safety	IEC62040-1, IEC60950-1			
	Certification- EMS	IEC62040-2 IEC61000-4-2(ESD) IEC61000-4-3(RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge)			
	IP degree	IP20			
	Configuration	USB, RS232, RS485, Dry contact, Cold start,Ethernet port			
	Option	SNMP card, AS400 card, Parallel kit, Air filter			
	Environment	0-40 operation -25 ~70 storage 0-95% (Humidity, non-condensing)			
Dimension (W*D*H) mm		440*620*130 (3U)			
Weight(kg)		21.4	22.4	22.7	
Certifications		CE			
Country of Origin		Malaysia			
Warranty		2 years			

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OPTIONS & ACCESSORIES

- SNMP network monitoring card
- AS400 dry-contact card
- External battery cabinets
- Air filter / dust protection
- Cold start and emergency power-off (EPO) features

APPLICATIONS

- Government IT & Data Rooms
- Finance and Banking
- Enterprise IT & Cloud
- Education and Research Centers
- Transportation & Airports
- Medical Diagnostics & Healthcare
- Broadcasting and Telecommunication
- Energy & Industrial Control Rooms

ORDERING INFORMATION

Model	Description
PE-R010-3X	QUANT POWER EDGE Online UPS 10kVA, 3-Phase Rack
PE-R015-3X	QUANT POWER EDGE Online UPS 15kVA, 3-Phase Rack
PE-R020-3X	QUANT POWER EDGE Online UPS 20kVA, 3-Phase Rack
PE-R030-3X	QUANT POWER EDGE Online UPS 30kVA, 3-Phase Rack

