

POWER EDGE ONLINE UPS



POWER EDGE ONLINE UPS – 20 kVA (3-Phase Tower) *High-Density Online Double Conversion UPS*

The **QUANT POWER EDGE 20 kVA Tower UPS** is a high-performance, 3-phase online double-conversion UPS designed for critical applications requiring continuous, clean, and stable power.

It features DSP full-digital control, 7-inch IoT touch LCD, and powerful inverter technology to ensure maximum reliability, high efficiency, and superior load protection.

This model is available in internal battery and external battery configurations, with internal versions supporting a minimum of 40 pcs 12V batteries.

It includes a complete standard breaker configuration for enhanced safety and ease of maintenance.



KEY FEATURES

- **True Online Double Conversion**
Zero transfer time, ensuring uninterrupted clean power.
- **3-Phase Input / 3-Phase Output (3P/3P)**
Suitable for enterprise and industrial-grade loads.
- **Smart 7" Color Touch LCD with IoT Functions**
Provides system monitoring, real-time alarms, historical logs, energy statistics, and remote management.
- **High Power Density & Compact Footprint**
Delivers strong performance in a reduced size.
- **Internal & External Battery Flexibility**
Internal battery version supports 40 pcs (12VDC/7-9Ah).
External battery version is fully configurable.
- **Advanced DSP Control**
Ensures fast response, accurate control, and enhanced reliability.
- **Wide Input Voltage & Frequency Range**
Supports unstable grid environments.
- **Comprehensive Breaker Configuration Includes**
Input breaker, Output breaker, Static bypass breaker, Maintenance bypass switch, Battery breaker
- **High Efficiency (up to 97%)**
Reduces losses and improves energy savings.

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TECHNICAL SPECIFICATIONS

MODEL		PE-T020-3X-40B	PE-T020-3X-80B	PE-T020-3X
Rate Power		20kVA		
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)		
	Freq. range	40-70Hz		
	Rate voltage	±240VDC(default 40 PCS)		
Battery	Model	Internal BAT	UPS with internal batteries,12VDC/7~9Ah	
		External BAT	UPS for external batteries,Settable	
	Quantity	Internal BAT	40PCS	
		External BAT	40PCS(default, 30-50PCS optional)	
Charging Internal BAT		4.3%*Pout	8.6%*Pout	4.3%*Pout
Capacity	External BAT	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		

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TECHNICAL SPECIFICATIONS

MODEL	PE-T020-3X-40B	PE-T020-3X-80B	PE-T020-3X
Inverter	Rate voltage	380/400/415VAC(L-L) 220/230/240VAC(L-N)	
	Rate Freq.	50/60Hz	
	Output PF	1	
	Voltage accuracy	±1.0%	
	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	0.001	
	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)	
	Configuration	USB, RS232, RS485, Dry contact, Air filter, Cold start, Ethernet port	
	Option	SNMP card, AS400 card, Parallel kit	
	Environment	0-40 operation -25 ~70 storage 0-95% (Humidity, non-condensing)	
Dimension ,W*D*H (mm)	250*745*556,	250*745*556,	250*745*556,
Country of Origin	Malaysia		
Warranty	2 years		

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STANDARD CONFIGURATION

- Input breaker
- Output breaker
- Static bypass breaker
- Maintenance bypass switch
- Battery breaker
- DSP digital control
- IoT-enabled 7" touch display
- Cold start capability
- Smart battery management

APPLICATIONS

- Government IT & Data Rooms
- Banking & Financial Institutions
- Enterprise ICT & Cloud Infrastructure
- Large CCTV & ELV Command Centers
- Medical Diagnostics & Healthcare Systems
- Broadcasting & Telecom Sites
- Industrial Automation & Process Control
- Transportation, Airports & Utilities
- Energy & SCADA Control Rooms

ORDERING INFORMATION

Model	Description
PE-T020-3X-40B	QUANT POWER EDGE 20 kVA Tower UPS, PF1.0, Internal battery space for 40 × 12V, 7" Touch LCD (batteries excluded)
PE-T020-3X-80B	QUANT POWER EDGE 20 kVA Tower UPS, PF1.0, Internal battery space for 80 × 12V, 7" Touch LCD (batteries excluded)
PE-T020-3X	QUANT POWER EDGE 20kVA Tower UPS, PF1.0, External battery type, 7" Touch LCD

