

## PROLINE TOWER ONLINE UPS



### PROLINE TOWER ONLINE UPS – (10-20 kVA, 3/1 Phase)

*High-Density Online Double Conversion UPS*

The **QUANT PROLINE Tower Online UPS series** is a premium three-phase input / single-phase output power protection solution designed for critical applications that require continuous, clean, and stable power.

Using advanced online double-conversion technology, the system ensures zero-transfer time, providing uninterrupted power for sensitive equipment in Government, Banking, IT, Education, Medical, Transportation, and Industrial environment



#### KEY FEATURES

- **True Online Double-Conversion Technology**  
Ensures pure, stable, and isolated output with zero transfer time
- **High Output Power Factor = 1.0**  
Supports full-rated kW load with maximum efficiency and compatibility with modern IT equipment
- **Wide Input Voltage Range**  
Stable operation even in unstable electrical environments (190-499 VAC L-L)
- **Advanced 3-Level Inverter Topology**  
Higher efficiency, lower heat generation, extended component life
- **Intelligent Battery Management**  
Optimized charging control and automatic battery self-test (external battery strings supported)
- **Adaptive Half-Wave Load Support**  
Capable of handling non-linear and computer-grade loads
- **Digital Control Platform**  
Full DSP control ensures reliability, fast response, and high efficiency
- **Automatic Fault Waveform Recording**  
Assists diagnostics and root-cause analysis
- **Self-Aging Function**  
Internal self-test without external load to reduce testing energy and time

## PROLINE TOWER ONLINE UPS



### TECHNICAL SPECIFICATIONS

Model	PL-TS010-X	PL-TS015-X	PL-TS020-X
Rated Power	10kVA/10kW	15kVA/15kW	20kVA/20kW
Operation	1P/1P, 3P/1P, online double conversion		
Cold start	Default output 50/60Hz		
Input voltage range	190-499VAC (L-L)		
Input power factor	≥0.99		
Input frequency range	40-70Hz		
Output frequency	50/60Hz, self adaption		
Output power factor	1		
Rated output voltage	220/230/240VAC		
Load regulation	±1%		
Output THDu	≤1% (linear); ≤3% (non-linear) according to IEC62040-3		
Transfer time (INV to BYP)	0ms		
Efficiency (normal mode)	Up to 95%		
Efficiency (ECO mode)	98%		
Noise (1 meter)	<55dB	<62dB	<62dB
Overload (normal mode)	110%:10mins; 125%:1min; 150%:30 seconds		
Battery	External batteries, 16-24 settable		
Max charging current	5A		

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Model	PL-TS010-X	PL-TS015-X	PL-TS020-X
Battery rated voltage	Default 192VDC, settable		
Crest factor	3:1		
Standard interfaces	RS232, RS485, EPO		
Options & accessories	AS400, SNMP card, Parallel kit, USB, 12A charger, Air filter, Single Input kit, Maintenance bypass		
Dimensions (W×D×H)	190×564×500 mm		
Weight	30 kg		
Certification	CE		
Country of Origin	Malaysia		
Warranty	2 Years		

### OPTIONS & ACCESSORIES

- SNMP network management card
- AS400 dry-contact card
- Parallel kit for load sharing
- External battery strings (16-24, settable)
- High-current 12A charger module
- Air filter kit
- Single input kit
- Maintenance bypass (MBS) kit
- USB interface (optional)

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### COMMUNICATION INTERFACES

- Standard: RS232, RS485, EPO
- Optional: USB, SNMP, AS400

### ORDERING INFORMATION

Model	Description
<b>PL-TS010-X</b>	QUANT PROLINE Tower Online UPS, 10kVA/10kW, 3/1
<b>PL-TS015-X</b>	QUANT PROLINE Tower Online UPS, 15kVA/15kW, 3/1
<b>PL-TS020-X</b>	QUANT PROLINE Tower Online UPS, 20kVA/20kW, 3/1

