

PTX Series

160KVA-600KVA

3 Phase In - 3 Phase Out



About the PTX Series

Perpetual Power proudly presents the PTX Series, a true double-conversion online industrial UPS built on the advanced PTX platform. Drawing upon decades of expertise in power electronics across sectors such as highways, tunneling, manufacturing, and the energy industry, the PTX Series is engineered for demanding environments. This series utilizes an IGBT rectifier paired with a built-in isolation transformer, delivering exceptional electrical safety, high system availability, and reliable performance. It ensures a stable and uninterrupted power supply for critical operations across industries including finance, transportation, telecommunications, and manufacturing. The PTX Series stands out for its robust architecture and dependable operation, making it an ideal choice for environments where power continuity and safety are non-negotiable.

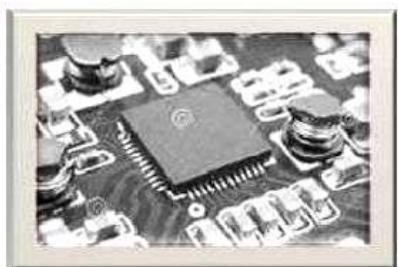
Key Features – PTX Series UPS

The PTX Series incorporates cutting-edge technology and rugged design to ensure unmatched performance and protection in mission-critical applications:

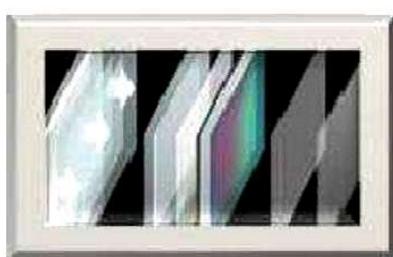
- Double Benchmark designed power System
- Reliability and safety Protection
- Superior Generator compatibility
- ABM (Advanced Battery Management)Technology
- IGBT based rectifier
- Strong load capacity and no switching time needed during the output.
- Power Supply Mode : 3-phase in / 3-phase out
- Pluggable power module design with front access to decrease MTTR (Mean Time To Repair), parallel redundancy capability for power guarantee
- Parallel operation with common battery
- Power walk-in function
- Dual-mains inputs
- Built-in 4 switches including Mains input, bypass input, output and maintenance bypass switch
- Flexible battery configuration and adjustable charging current
- Output power factor 0.9
- Active power factor correction in all phases
- Built-in 7" touch LCD +LED screen for comprehensive information
- Emergency power off function (EPO)
- 50Hz/60Hz frequency converter mode

Benchmark Design

The PTX Series is a pedometrical benchmark in industrial UPS design, engineered to perform reliably across a wide range of environments. Its design emphasizes adaptability, usability, and communication: User-Friendly Interface: Equipped with a 7" touch screen LCD + LED display, the PTX Series provides real-time data and intuitive control through multifunctional key operations and a user-friendly HMI (Human-Machine Interface).Advanced Multi-Platform Communication: Supports diverse communication protocols, ensuring seamless integration with modern monitoring and management systems. Optimized Thermal Management: Strategically placed air vents on the front and side panels enhance cooling efficiency, ensuring stable performance even in demanding operating conditions. This benchmark design makes the PTX Series a reliable choice for mission-critical applications where durability, visibility, and ease of integration are essential.



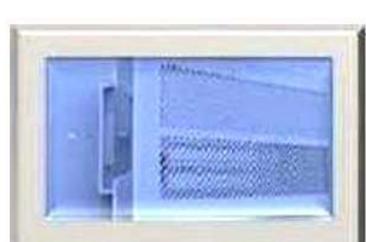
Complete system superior
by Micro controller



Display LCD+LED



HMI Technology



Smart Air Vent UPS

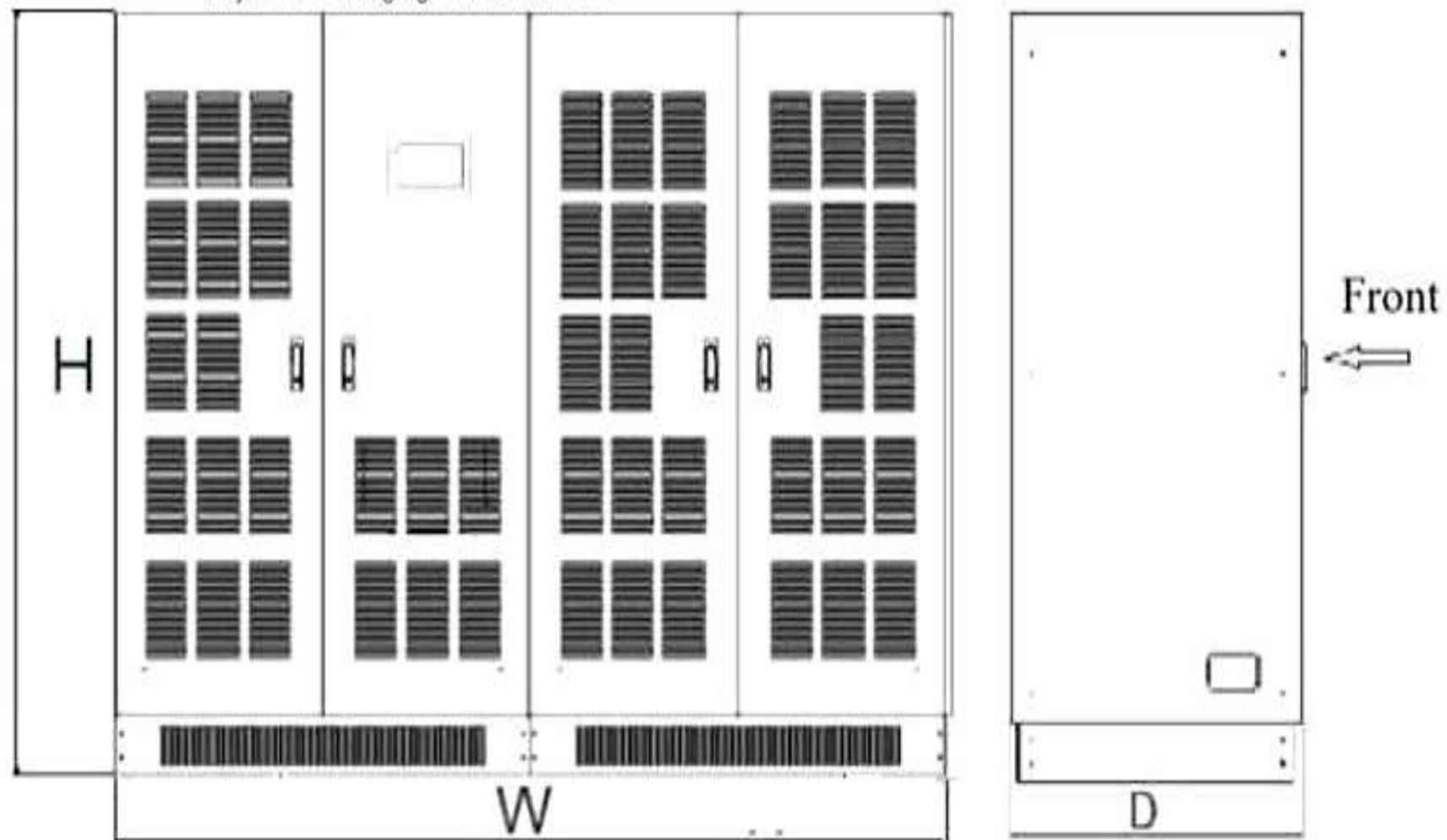
Tremendous Benefits

Deploying a Perpetual Power UPS offers numerous critical benefits. First and foremost, it protects against utility power failures, safeguarding sensitive equipment-such as computers, servers, and networking devices-from potential damage caused by voltage fluctuations, surges, and outages, which are becoming increasingly frequent. Perpetual Power is committed to delivering cost-effective, high-quality power solutions, ensuring maximum reliability at a competitive price point. Our systems provide robust protection, ease of integration, and long-term value for a wide range of industries.

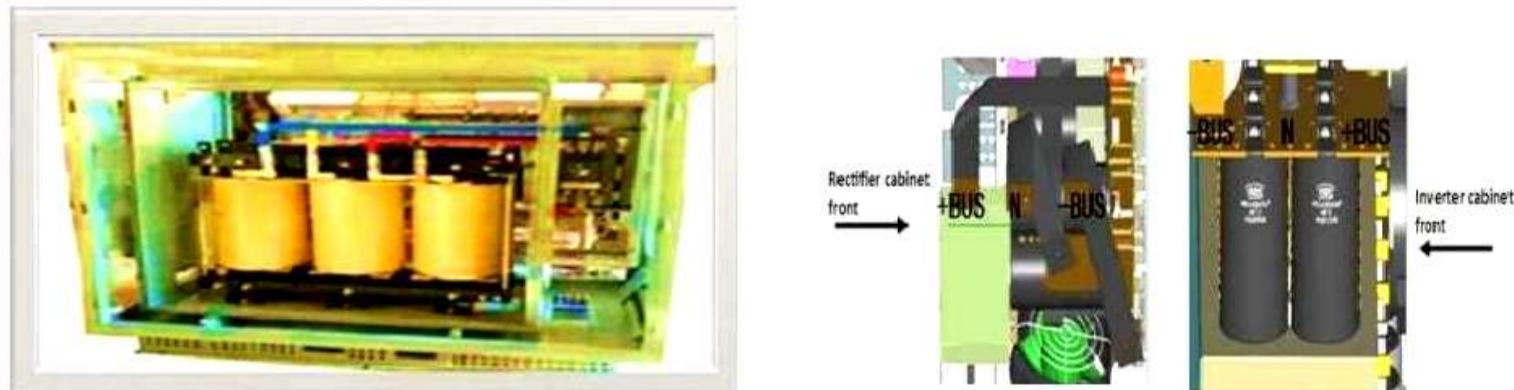
Front / Rear View

7"touchLCDscreen

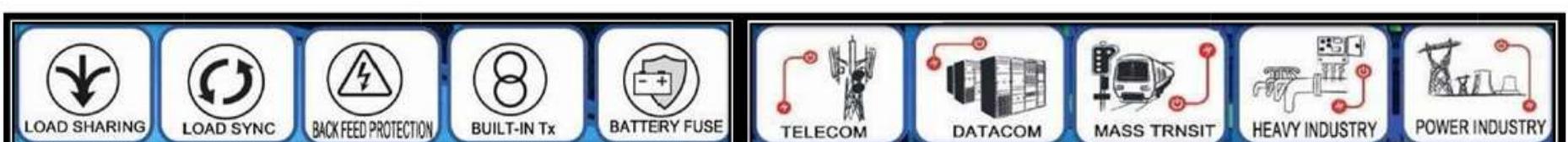
- Dynamic password optimizes service performance
- Adjustable charging current via LCD



Standard configure with Output Isolation Transformer: Optional



Applications



Technical Specifications

MODEL	PTX 33 160E	PTX 33 200E	PTX 33 250E	PTX 33 300E	PTX 33 400E	PTX 33 500E	PTX 33 600E
CAPACITY	160 KVA	200 KVA	250 KVA	300 KVA	400 KVA	500 KVA	600 KVA
INPUT							
Phase	Main Circuit Input : Three-Phase Four Wire (3Φ+PE) Bypass Input: Three Phase Five-Wire(3Φ+N+PE)						
Rated Voltage	380 / 400 / 415 VAC						
Voltage Range	304~346 V (Deratings 10%), 320~480 V (Full Load)						
Frequency	50Hz / 60Hz						
Frequency Range	50~60Hz ± 10Hz						
Power Factor	≥ 0.99						
Total Harmonic Distortion (THDI)	≤ 1% (Linear Load) ≤ 3% (Non-Liner Load)						
Delayed Start Over Rectifier	10s (1~300 Settable)						
Rectifier Type	IGBT Based Rectifier						
Bypass Voltage Range	± 20% (Settable)						
OUTPUT							
Output	Three-Phase Five-Wire (3Φ+N+P E)						
Voltage Range	380 / 400 / 415 VAC (3Ph+N)						
Voltage Regulation	±1%						
Frequency-Synchronized Range	45~55Hz or 55~65Hz						
Frequency-Online Mode	Mains Mode Track Bypass Input in the State of Synchronization Battery Mode 50Hz / 60Hz ± 0.1%						
Wave Form	Sinusoidal						
Power Factor	0.9 / 1.0 (Optional)						
Total Harmonic Distortion (THDv)	≤ 1% (Linear Load), ≤ 3% (Non-Liner Load)						
Crest Factor	3:1						
Over Load	105%~110% For 30 Mins, 110%~125% For 10 Mins 125% < Load ≤ 150% For 1 Min, 150%~200% for 200ms						
Bypass to Normal	± 10%						
Bypass Source	50Hz ± 2.5%						
BATTERIES							
Features	External						
Type	Tubular , SMF ,VRLA AGM Sealed Lead Acid Maintenance Free Battery, Li-ion Battery						
Numbers	Lead Acid Battery : 12Vx40 Pcs (32 - 48 Pcs Settable) Lead Acid Battery : 2Vx240 Pcs (192 - 288 Pcs Settable)						
DC Voltage	Lead Acid Battery 384 - 480 VDC						
Charging Current	Charging Rate (Settable Battery Capacity (Settable) x Number of Battery Groups (Settable))						
SYSTEM							
Efficiency	Online mode ≥ 95%, ECO mode ≥ 99%						
Parallel	Up to 6 units						
Transformer (Optional)	Inbuilt Output Isolation Transformer						
EMC	CISPR22 CLASS A						
Quality/Security	ISO9001:2015, ISO14001:2015, ISO 27001:2013, ISO45001:2018, ROHS						
DISPLAY CONTROL							
Display	7 Inches LCD Touch Screen +LED						
Settable via LCD	Output Voltage, EOD, Auto-Start, Bypass Mode, ECO Mode and Frequency Conversion Mode						
Control Technology	DSP (Digital Signal Processors)						
MANAGEMENT CONTROL AND COMMUNICATION							
Output terminal	Connections Block Terminal						
Protections	Short-Circuit, Over Load, Over Temperature, Battery Discharge Protection and Fan Testing Protection, Surge Protection (For Network / Fax / Modem)						
SMART RS-232/USB	Supports Windows 2000 / 2003 / XP / Vista / 2008, Windows 7 / 8 /10, Linux and MAC						
Optional SNMP	Standard Configuration USB, RS232, RS485, CAN, Dry Contacts Optional Configuration SNMP Card, Wi-Fi Card, GPRS Card, GSM-SM, Modem Alarm, Temperature Compensation, SMS Alarms						
ENVIRONMENT							
Operating Humidity	0~95% RH @ 0~45°C (Non-Condensing)						
Storage Temperature	-25°C - 55°C (Exclude Batteries)						
Operating Altitude	≤ 1000m Above 1000m Deratings 1% For Each Rising 100m						
Ingress Protection Rating	IP20						
Noise Level at 1m	≤ 50 dB A (at 1M)						
PHYSICAL							
Dimensions (mm) (WxDxH)	800X860X1700	1210X860X1950			2380X1600X1950		
Packaged Dimensions (mm) (WxDxH)	900X1000X1950	1300X1000X2250			1300X1000X2200		
Net Weight (Kg)	790	1135	1275	1355	2090	2300	
Gross Weight (Kg)	840	1200	1340	1420	2200	2410	

**Accuracy weight ± 200gm

**Accuracy Dimension ± 20mm

- Specifications are subject to change without notice.
- Due to regular upgrade on picture and actual product may vary
- Custom-made specifications are acceptable.

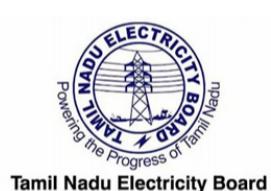
Our Clients



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