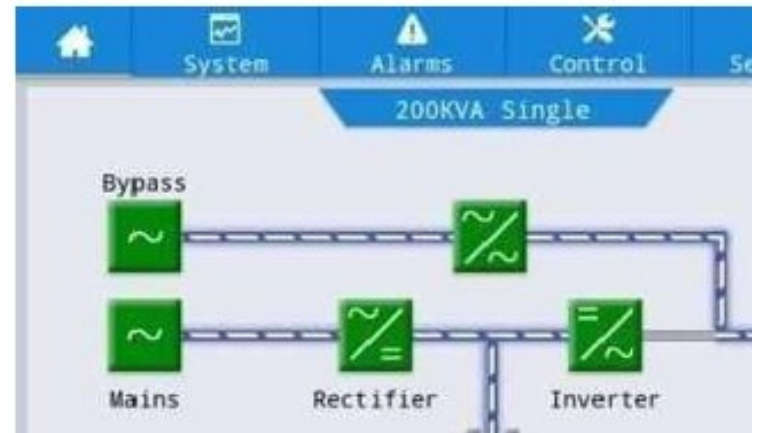


PTX Series

160KVA~600KVA 3 ϕ In/3 ϕ In/3 ϕ Out



7inchDisplay160KVA~600KVA



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..

Why Choose the PT Series?

The PTX Series from Perpetual Power delivers industrial-grade performance with unmatched safety, flexibility, and reliability. Here's what makes it stand out:

<u>Dual Benchmark Power Design</u> Engineered for high reliability and performance under critical conditions.	<u>Robust Reliability & Safety Protection</u> Ensures operational security even in harsh environments.	<u>Superior Generator Compatibility</u> Seamless integration with generator sets for uninterrupted power.	<u>ABM (Advanced Battery Management) Technology</u> Extends battery life and optimizes performance.	<u>IGBT-Based Rectifier</u> Enhances efficiency, reduces harmonic distortion, and improves power quality.
<u>Zero Switching Time</u> Delivers uninterrupted output even under load transitions.	<u>3-Phase Input / 3-Phase Output</u> Ideal for industrial and high-capacity applications.	<u>Pluggable Power Module Design</u> Front-access serviceability reduces MTTR (Mean Time To Repair); supports parallel redundancy for enhanced reliability.	<u>Parallel Operation with Common Battery Bank</u> Increases flexibility and ensures power availability.	<u>Power Walk-In Function</u> Smoothly starts up without impact on the utility or generator.
<u>Dual-Mains Inputs</u> Provides redundancy for critical loads.	<u>Built-in Four Switches</u> Includes mains input, bypass input, output, and maintenance bypass switch for complete operational control.	<u>Flexible Battery Configuration</u> Adjustable charging current and scalable battery setup.	<u>High Output Power Factor (0.9)</u> Increases active power capability.	<u>Active Power Factor Correction</u> On all phases, reduces input current harmonics and improves input power factor.
<u>7" Touch screen LCD + LED Display</u> Offers intuitive and comprehensive monitoring.	<u>Emergency Power Off (EPO)</u> For enhanced safety in critical situations.	<u>50Hz/60Hz Frequency Converter Mode</u> Enables frequency adaptation based on application needs	<u>Fully Generator-Compatible</u> Ensures stable operation when powered by backup generators.	

Benchmark Design

The PTX Series is a pedometric 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

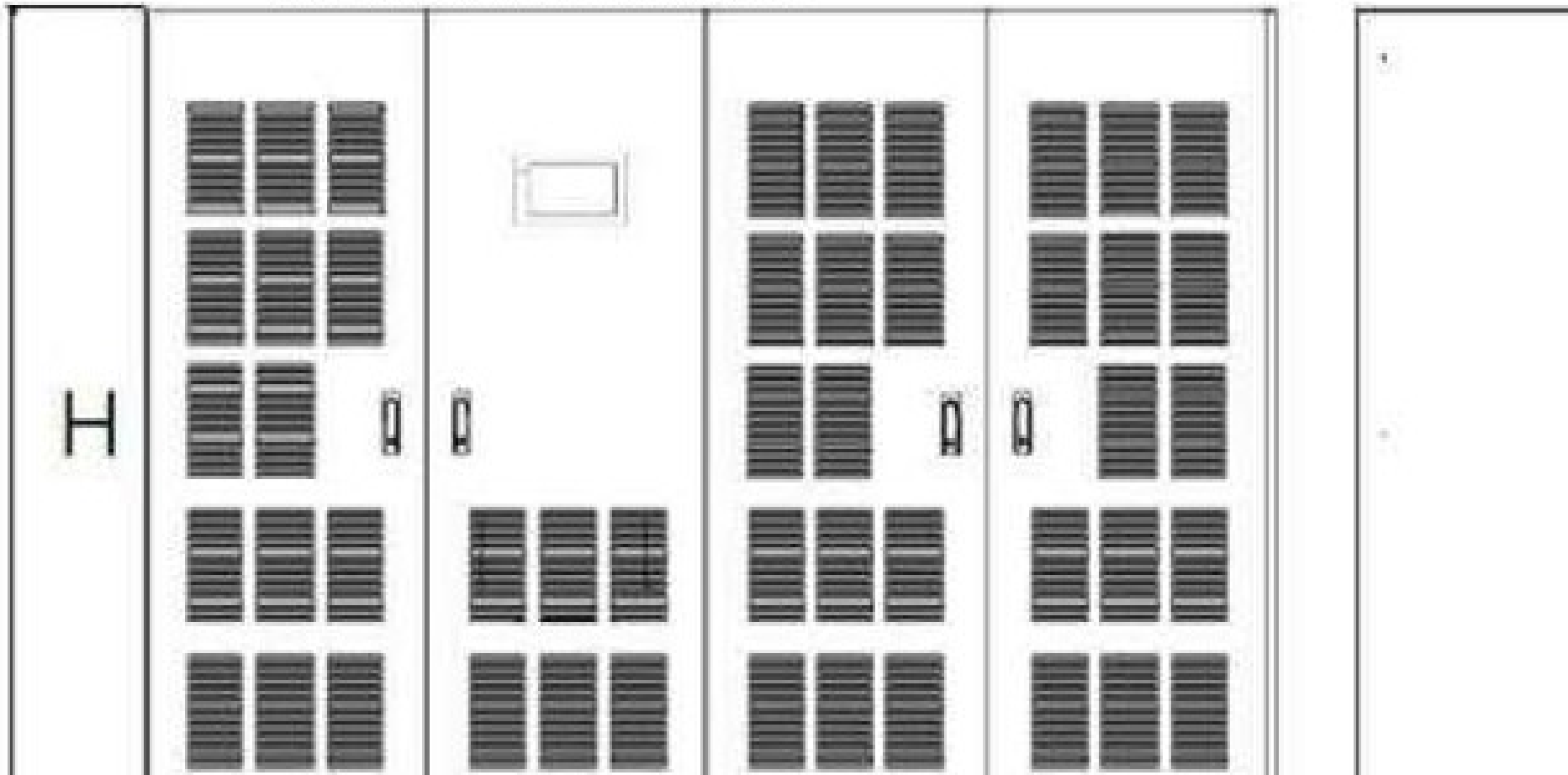
Tremendous Benefits

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



Features

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

Online Double Conversion Topology

Ensures continuous and clean power without interruptions.

Dual-Mains Input Support

Provides flexible and redundant power sources.

DSP Control Technology

Guarantees high system reliability and fast response to power anomalies.

True Galvanic Isolation

Built-in isolation transformer offers complete electrical isolation for enhanced safety.

Full Input/ Output Isolation

Improves system protection and safety, ideal for sensitive environments.

Superior Load Handling

High overload and mixed load capacity ensures performance under demanding conditions

Redundant Fan Design with Independent Ventilation

Enables durable, stable operation even in harsh or high-temperature environments.

Intelligent Self-Diagnostic Function

Real-time system checks with advanced failure protection and large-capacity fault history storage.

High Efficiency at Partial Loads

Optimized for energy savings across varying load conditions.

Adjustable Battery Configuration

Flexible battery count and intelligent charging for greater adaptability.

Advanced Battery Management (ABM)

Extends battery life and ensures reliable runtime.

N+X Redundancy (Optional)

Scalable parallel operation with up to 6 units for fault-tolerant design.

Flexible Communication Interfaces

Multiple communication options for integration with building management or monitoring systems.

ECO Mode & EPO Support

Energy-saving ECO mode and emergency power-off function enhance operational flexibility and safety.

Generator Compatible

Designed to work seamlessly with backup generator systems.

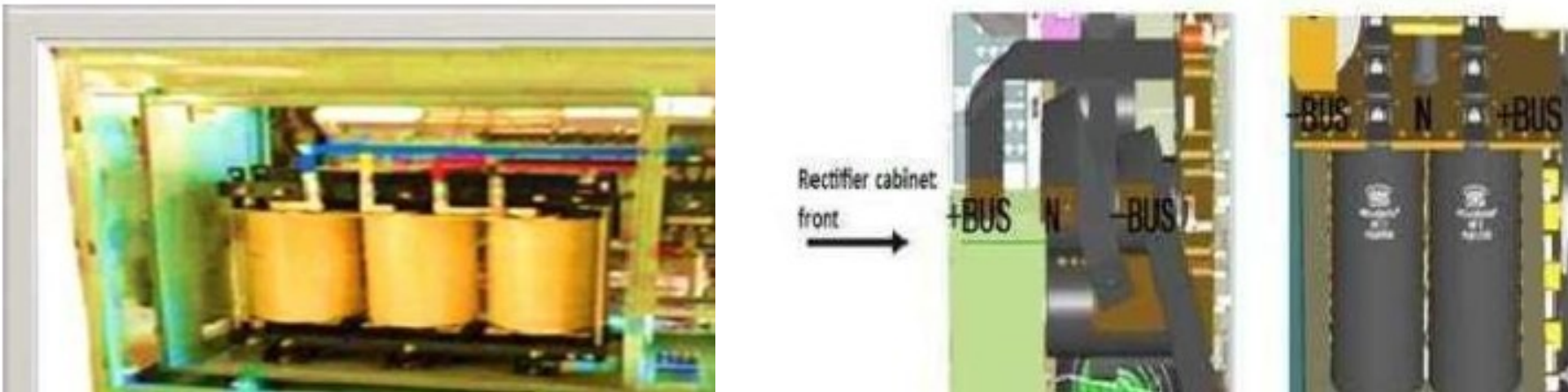
High MTBF (>200,000 hours)

Maximizes uptime and long-term performance.

Low MTTR (<0.5 hours)

Modular design with front access reduces maintenance time and cost.

Standard configure with Output Isolation Transformer: Optional



PTX Series 160KVA–600KVA 3ϕin/ϕ out Online UPS Selection Guide

MODEL	PTX33160E	PTX33200E	PTX33250E	TX33300E	PTX33400E	PTX33500E	PTX33600E
CAPACITY	160KVA	200KVA	250KVA	300KVA	400KVA	500KVA	600KVA
INPUT							
Phase	Main circuit input :three-phase four-wire(3Φ+PE);Bypass input:three-phase five-wire(3Φ+N+PE)						
Rated Voltage	380/400/415Vac						
Voltage Range	304~346V(derating10%),320~480V(fullload)						
Frequency Rate	50Hz/60Hz						
Frequency range	50~60Hz±10Hz						
Power Factor	≥0.99						
Total harmonic distortion (THDi)	≤3%						
Delayed start over rectifier	10s(1~300settable)						
Rectifier Type	IGBT based rectifier						
Bypass voltage range	±20%(settable)						
OUTPUT							
Output	Three-phase five-wire(3Φ+N+PE)						
Voltage Range	380/400/415VAC(3Ph+N)						
Voltage Regulation	±1%						
Frequency-synchronized range	45~55Hzor55~65Hz						
Frequency-Battery mode	Mains mode: track bypass input in the state of synchronization battery mode 50/60Hz±0.1%						
Wave form	Sinusoidal						
Power Factor	0.9						
Total harmonic distortion (THDv)	≤1%(linear Load),≤3%(non-linerLoad)						
Crest factor	3:1						
Over load	105%~110% for 60 min,110%~125% for 10 min,125% < load ≤ 150% for 1min,150%~200% for 200ms						
Bypass to normal	±10%						
Bypass source	50Hz±2.5%						
BATTERIES							
Features	External						
Type	VRLA AGM Sealed lead acid maintenance free battery, LIP battery						
Numbers	Lead acid battery:12Vx40pcs(32-48 pcs set table) Lead acid battery:2Vx240pcs(192-288 pcs set table) Lithiu miron phosphate battery:3.4Vx192pcs(192/208pcs settable)						
Dc Voltage	Leadacidbattery:480VDClithiumironphosphatebattery:491.5VDC						
Charging Current	Charging rate (settable)x battery capacity (settable)x number of battery groups (settable)						
Typical Recharge time	Long run model: depend on the capacity of battery						
SYSTEM							
Efficiency	Line mode≥95%, ECOmode≥99%						
Parallel	Upto6units						
Transformer (Optional)	Inbuilt Output Isolation transformer						
EMC	CISPR22CLASSA						
Quality/Security	CE,TUV,IECEN62040-1-1-1,ISO,OHSAS18001BIS						
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-CONTROLANDCOMMUNICATIONS							
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)						
SMARTRS-232USB	Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,LinuxandMAC						
*Optional SNMP	Standard configuration:USB,RS232,RS485,CAN,drycontacts Optional configuration: SNMP card, WIFI card, GPRS card, GSM-SM modem alarm, temperature compensation, SMS alarms						
Inter face	Bitrate:2400bps/Byte:8bit/Completioncode:1bit						
ENVIRONMENT							
Operating humidity	0~95%RH@0~45°C(non-condensing)						
Storage temperature	-25°C~55°C(exclude batteries)						
Operating Altitude	≤1000m Above1000m,derating 1% for each rising 100m						
Ingress Protection rating	IP20						
Noise level at 1m	≤65dBA				≤70dBA(at1M)		
PHYSICAL							
Dimensions(mm))(WxD×H)	800x860x1700	1210x860x1950			2380x8600x1950		
Packaged dimensions (mm)(WxDxH)	900x1000x 1950	1300x1000x2250			1300x1000x2200		
Net weight(kg)	790	1135	1275	1355	2090	2300	
Gross weight(kg)	840	1200	1340	1420	2200	2410	

*If output voltage is set as 3x360VAC, the output power of the unit will be de-rated to 90%.

**If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be de rated 1% per 100m.Product specifications are subject to change without further notice.

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Applications

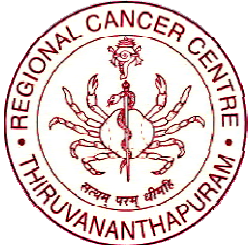


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