

PPX Series
10KVA–30KVA
IGBT & ITX Base UPS
3 Ø in & 3 Ø Out



About the PPX Series

Perpetual Power proudly presents the PPX Series — a Made-in-India high-performance UPS solution, designed for critical power applications across various industry segments. The PPX Series features a galvanized output isolation transformer for superior electrical safety and a high-efficiency IGBT-mounted inverter. This advanced single-phase UPS system delivers up to 90% active power output and achieves up to 96.54% efficiency, making it ideal for sensitive and high-demand equipment. With architecture built on the foundation of our successful DX Series, the PPX Series integrates

Key Features – PPX Series UPS

- Cost-Effective & Economical offers premium performance at a competitive price, making it a smart investment for both industrial and commercial needs.
- I² Technology (Intelligent Inverter Technology) powered by next-gen i² technology for intelligent power management, faster response time, and optimized inverter control.
- HRC Safety Device equipped with High Rupturing Capacity (HRC) safety devices to provide maximum protection against electrical faults and over currents.
- Double Benchmark Designed Power System engineered with dual benchmark standards to ensure unmatched power quality and performance across critical applications.
- Reliability & Sustainability built with robust components and advanced engineering to deliver long-term, reliable operation with energy-efficient design.

I² Technology Design – Engineered for Excellence

The PPX Series is a pedometrical benchmark UPS, built with advanced i² (Intelligent Inverter) Technology to perform seamlessly in any environment. Designed with user convenience and reliability in mind, it features:

- LCD + LED display for clear system monitoring
- Multi-functional keys for intuitive operation
- User-friendly HMI interface for quick access and control
- Advanced multi-platform communication for seamless integration with various systems
- Optimized airflow design with air vents on the front and side panels for efficient thermal management

This makes the PPX Series not just powerful, but also smart, adaptable, and easy to operate—ideal for critical power environments.



High Reliability Design

The double conversion online architecture ensures the output is a pure sine wave, with frequency tracking, phase locking, and voltage regulation. This design minimizes load distortion and eliminates power fluctuation interference, providing comprehensive protection for connected equipment.

Tremendously Beneficial

PPX series offers numerous benefits to deploying a Perpetual Power UPS, first and foremost, UPS protect against utilities power failure and helping safeguard sensitive equipment like computer and network gear from cause of damage, which also occurs on a dramatically increasing basis.

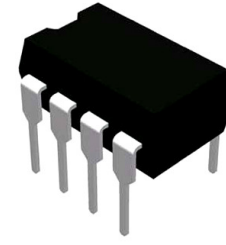


Strong Overload Protection with ITX

The built-in isolation transformer offers robust anti-interference capability, delivering enhanced and comprehensive protection against overloads and power disturbances.

Wide Input Range

Supports an AC input voltage range of 230–415V, significantly reducing battery usage and extending battery life. The wide input frequency range ensures compatibility with all types of generators.

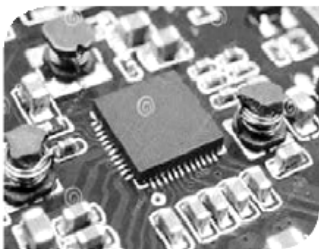
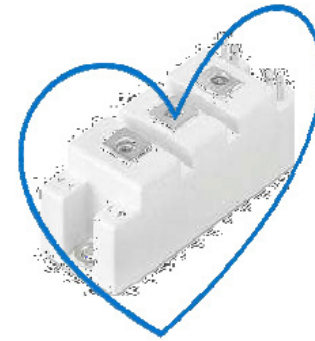


Comprehensive and Reliable Protection

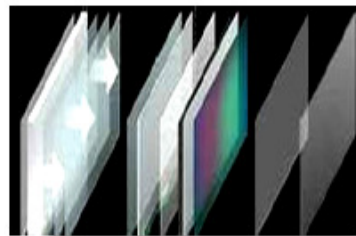
Equipped with multiple protection features-including overload, short circuit, over-temperature, under / over battery voltage, and overcharging protection-the system ensures high stability and operational reliability. In the event of a UPS failure, the built-in static bypass switch automatically transfers the load to bypass mode, maintaining uninterrupted power supply.

Advanced Power Conversion Technology

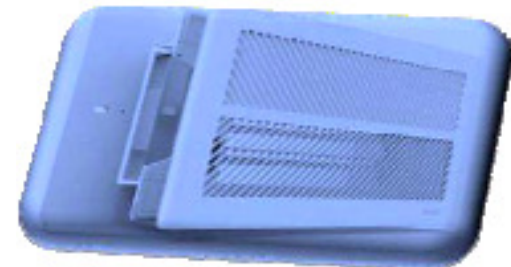
The adoption of IGBT technology, combined with a high-efficiency inverter and charger system, ensures optimal energy saving. Paired with an isolation transformer, this design significantly enhances system reliability and load adaptability.



Complete system superior by Microcontroller



Display LCD+LED



Smart Air Vent

Applications



Technical Specifications - Built-in Transformer with IGBT

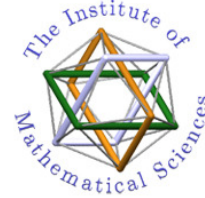
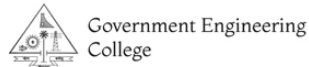
Model	PPX33 10G	PPX33 15G	PPX33 20E	PPX33 25E	PPX33 30E
CAPACITY	10 KVA	15 KVA	20 KVA	25 KVA	30 KVA
INPUT					
Phase	Three Phase +N+PE				
Rated Voltage	380 / 400 /415 VAC				
Voltage Range	250~495 VAC				
Frequency Rate	50Hz / 60 Hz				
Frequency Range	40Hz - 70Hz (Auto-Sensing)				
Power Factor	≥ 0.99				
Frequency Tracking Range	± 5% Hz				
OUTPUT					
Voltage Range	360 / 380 / 400 / 415 VAC (3Ph+N)				
Voltage Regulation	± 1% (static) ± 2% (typical)				
Frequency-Synchronized Range	45Hz~55Hz or 55Hz~65Hz				
Frequency-Online Mode	Mains Mode Track Bypass Input in the State of Sync Harmonization Battery Mode 50 / 60Hz ± 0.1Hz				
Waveform	Sinusoidal				
Power Factor	0.8				
Total Harmonic Distortion (THDv)	≤ 1% (Linear Load) ≤ 3% (Non-Liner Load)				
Crest Factor	3:1				
Over Load	110% 5 MINUTES – 125% 60 SECONDS				
BATTERIES					
Features	External				
Type	Tubular & VRLA AGM Sealed Lead Acid Maintenance Free Battery				
Capacity	Up to 400AH				
Numbers	20 Pcs – 32 Pcs Settable				
Dc Voltage	240 VDC-384 VDC (Settable)				
Charging Current	4 Amp – 40 Amp (Settable)				
Charging Voltage	13.5 V / Pcs ± 0.6 V / Pcs				
EOD (End of Discharge)	10.5 VDC / Pcs				
Typical Recharge Time	Standard Model 90% Capacity Restore Din 8 Hours Long Run Model Depend On the Capacity Of Battery				
SYSTEM					
Efficiency	≥ 90%				
Transfer Time	Mains Mode to Battery Mode : 0 ms Inverter Mode to Bypass < 2 ms (Typical)				
Transformer	In Built Output Isolation Transformer				
EMC (Electromagnetic Compatibility)	CISPR22 CLASS A				
Quality /Security	ISO9001:2015, ISO14001:2015, ISO 27001:2013, ISO45001:2018, ROHS				
DISPLAY CONTROL					
Display	LCD+LED				
Control Technology	DSP (Digital Signal Processors)				
ENVIRONMENT					
Operating Humidity	0-95% RH @ 0-45°C (Non-Condensing)				
Storage Temperature	-25°C - 55°C (Exclude Batteries)				
Operating Altitude	≤ 1000 m Deratings 1% For Each Rising 100m				
In Progress Protection Rating	IP20 / IP21				
Noise Level at 1m	≤ 55dB (at 1M)				
PHYSICAL					
Dimensions (mm) (WxDxH)	280 x 585 x 655		380 x 815 x 1050		
Packaged Dimensions (mm) (WxDxH)	330 x 630 x 700		430 x 865 x 1100		
Net Weight (Kg)	85	100	120	135	170
Gross Weight (Kg)	90	118	135	150	180

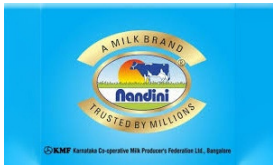
**Accuracy weight ± 200gm

**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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