

## PPX Series 3KVA~30KVA

IGBT & ITX Base UPS  
3KVA~10KVA, 1Øin & 1Ø OUT  
10KVA~30KVA, 3Øin & 1Ø 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 99.09% 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:

- Advanced Battery Management (ABM) Technology
- Robust design and durable construction
- User-friendly operation
- Extended backup performance

The PPX Series stands out for its reliability, efficiency, and ease of use, making it the preferred choice for mission-critical environments.

## Why Choose the PPX Series?

The PPX Series by Perpetual Power is built to deliver maximum value, performance, and safety for critical power needs. Here's why it stands out:

<p><b><u>Double Benchmark Designed Power System</u></b></p> <p>Engineered with a dual-benchmark architecture to ensure consistent, high-quality power output across all conditions.</p>	<p><b><u>Reliability &amp; Sustainability</u></b></p> <p>Built for long-term durability and performance, the PPX Series supports sustainable energy usage while maintaining high uptime reliability.</p>	<p><b><u>HRC Safety Device (High Rupturing Capacity Fuse) Incorporates</u></b></p> <p>HRC fuses for enhanced safety and protection against overcurrent or short-circuit conditions, ensuring secure operation.</p>	<p><b><u>Cost-Effective &amp; Economical</u></b></p> <p>Offers industry-leading performance at an affordable price point, making it an ideal solution for businesses seeking both quality and value.</p>	<p><b><u>i<sup>2</sup> Technology (Intelligent Inverter Technology)</u></b></p> <p>Advanced inverter technology ensures efficient power conversion, smart load management, and real-time system optimization.</p>
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## i<sup>2</sup>-Technology Design – PPX Series

The PPX Series, powered by i<sup>2</sup>-Technology, is a pedometrical benchmark in smart power solutions, engineered to seamlessly operate in any environment. It features a dual-display interface with both LCD and LED indicators, providing clear system status and intuitive operation. The unit includes multi-function keys and a user-friendly Human-Machine (HM) interface for ease of use and configuration. With advanced multi-platform communication support, the PPX Series ensures smooth integration into a wide range of systems and network environments. Additionally, the UPS is designed with strategically placed air vents on the front and side panels to ensure efficient heat dissipation and continuous, reliable operation.



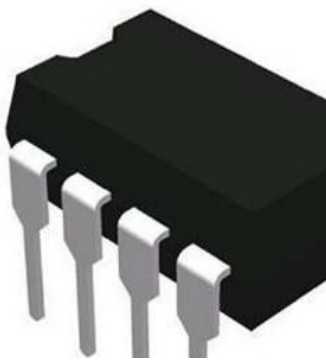


## High Reliability Design

The PPX Series features a double-conversion online design, delivering a pure sine wave output with precise frequency tracking, phase locking, and voltage regulation. This advanced design effectively eliminates power fluctuations and minimizes load distortion, ensuring stable and clean power for connected equipment. By providing consistent and interference-free output, the PPX Series offers comprehensive protection for sensitive and mission-critical devices, making it ideal for high-reliability environments.

## Strong Overload Protection with ITX Technology

The PPX Series is equipped with ITX - Built-in Isolation Transformer Technology, delivering robust protection against overloads and electrical disturbances. This integrated isolation transformer enhances the system's anti-interference capability, providing a clean and stable power supply even in harsh electrical environments. It also ensures superior isolation between input and output, safeguarding connected equipment from surges, spikes, and electrical noise. With comprehensive protection mechanisms, the PPX Series is ideal for sensitive and mission-critical applications requiring high resilience and reliability.



## Wide Input Range for Enhanced Efficiency

The PPX Series supports a wide AC input voltage range of 230V/415V, significantly reducing unnecessary battery usage during input fluctuations. This not only improves operational efficiency but also helps to extend battery lifespan. In addition, the wide input frequency range ensures seamless compatibility with all types of generators, making the PPX Series a reliable choice for both utility and backup power environments.

## Comprehensive and Reliable Protection

The PPX Series is engineered with multiple layers of protection to ensure maximum system stability and reliability. It safeguards both the UPS and connected equipment from:

- Overload
- Short Circuit
- Over temperature
- Battery Overvoltage/Under voltage
- Battery Overcharge

In the event of a UPS fault, the built-in static bypass switch automatically transfers the load to bypass mode, ensuring uninterrupted power supply and preventing downtime. This intelligent design maintains continuous operation and protects your critical systems at all times.



## Advanced IGBT Technology for Enhanced Performance

The PPX Series adopts advanced IGBT-based inverter and charger technology, coupled with a high-efficiency isolation transformer. This combination significantly enhances the systems:

- Reliability
- Energy efficiency
- Load adaptability

The use of high-performance switching components ensures smooth power conversion, reduced losses, and better handling of complex or sensitive loads. This makes the PPX Series an ideal choice for environments demanding stable and resilient power delivery.



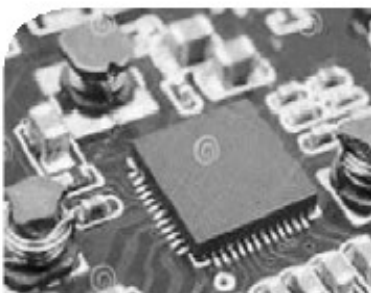
## User-Friendly Network Management

The PPX Series offers seamless and intelligent network communication capabilities for efficient system monitoring and management. Using the RS232 interface along with dedicated monitoring software, users can communicate directly with the UPS and view a wide range of real-time operational parameters, including input/output voltage, battery status, load level, and system events. Additionally, optional communication ports (such as USB, SNMP, or RS485) can be integrated to support remote management, unattended shutdown, and automated alerts, ensuring total control and visibility over your power system.

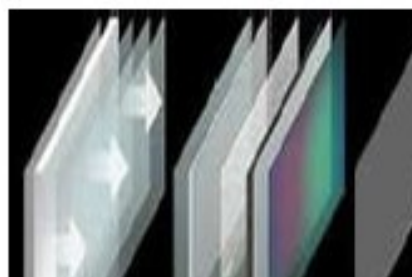


## Tremendous Benefits of the PPX Series

The PPX Series from Perpetual Power offers numerous critical advantages, making it an ideal choice for reliable and efficient power protection. First and foremost, the UPS provides strong protection against utility power failures, helping to safeguard sensitive equipment such as computers, servers, and networking devices from potential damage caused by power interruptions, voltage fluctuations, and electrical surges. In today's environment where power-related issues are increasing at an alarming rate—having a dependable backup system like the PPX Series is more important than ever. The PPX Series delivers this protection while maintaining an excellent balance of affordability and quality, making it one of the most cost-effective and trusted solutions in its class.

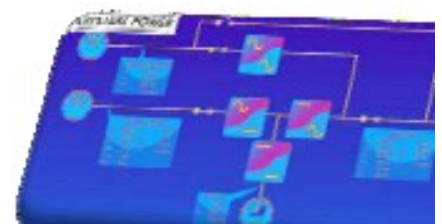


Complete system  
superior by  
Microcontroller



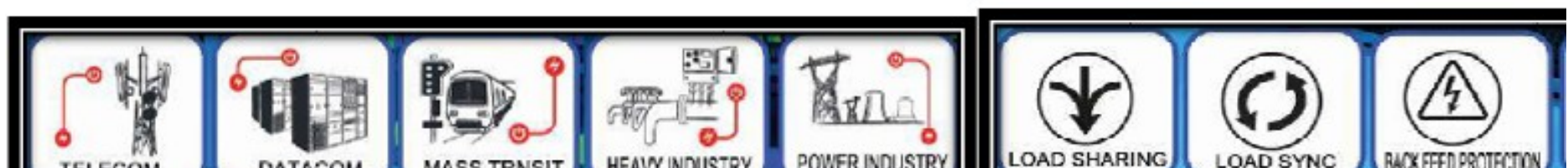
Display LCD+LED

HMI- Technology



Smart Air Vent Smart  
Air Vent UPS

## Applications





MODEL	PPXTG13E	PPXTG15E/16E	PPXTG18E	PPXTG110E	PPXTG3110E	PPXTG3115E	PPXTG3120E	PPXTG3125E	PPXTG3130E
CAPACITY	3KVA	5KVA/6KVA	8KVA	10KVA	10KVA	15KVA	20KVA	25KVA	30KVA
INPUT									
Phase	Single phase with ground				Three Phase+N +PE				
Rated Voltage	208/220/230/240Vac				380/400/415Vac				
Voltage Range	135~285Vac				250~495Vac				
Frequency Rate	50Hz/60Hz								
Frequency range	40~70Hz(auto-sensing)								
Power Factor	≥0.99@Nominal Voltage(100% load)								
Frequency tracking range	±5% Hz								
OUTPUT									
Voltage Range	220/230/240Vac(Singlephase+N+PE)								
Voltage Regulation	±1% (static);±2% (typical);								
Frequency-synchronized range	45~55Hz or55~65Hz								
Frequency-Battery mode	Mains mode: track bypass input in the state of synchronization battery mode 50/60Hz±0.1 Hz								
Waveform	Sinusoidal								
Power Factor	0.9								
Total harmonic distortion(THDv)	≤2%(linear Load),≤6%(non-liner Load)								
Recovery time of transient voltage	<20ms								
Crest factor	3:1								
Overload	100% <load≤125% for60min125% <load≤150% for60sec.								
BYPASS									
Rated Voltage	220/230/240Vac(Single phase +N+PE)								
Overload	100% <load≤125% for60min125% <load≤150% for60sec.								
BATTERIES									
Features	External								
Type	VRLAAGM Sealed lead acid maintenance free battery								
Capacity	12V/upto200AH								
Numbers	8 pcs ~16pcs settable16 pcs~32 pcs settable								
Dc Voltage	96 VDC ~192 VDC(settable)				192VDC~384VDC(settable)				
Charging Current	Builin4Amp~40 Amp(settable)								
Charging Output VDC	13.5±0.6/Pcs								
EOD	10.5VDC /Pcs								
Typical Recharge time	Standard model; 90% capacity restored in3 hours ; Long run model :depend on the capacity of battery								
SYSTEM									
Efficiency	Online Mode		≥92%(full load)						
	Inverter Mode		≥96%(full load)						
Transfer time	≤2ms								
Transformer	Inbuilt Output Isolation transformer								
EMC	CISPR 22CLASSA								
Quality /Security	CE,TUV,EN62040-1-1-1ISO9001:2015OHSAS18001BISROHS								
DISPLAYCONTROL									
Display	LCD+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	IS Type D (3pin)grounded and(Type G,M ,N, O,for inter national market standard)					Connections’-socket			
Protections	Short-circuit, over load, over temperature, battery discharge protection and fan testing protection, Surge protection(for network/fax/ modem)								
SMARTRS-232 USB	Supports Windows2000/2003/XP/Vista/2008,Windows7/8/10,LinuxandMAC								
*Optional SNMP	Power Management from SNMP manager and webbrowser								
Interface	Bitrate:2400bps/ Byte:8bit/ Completioncode:1bit								
ENVIRONMENT									
Operating humidity	0 ~95% RH @0~45°C(non-condensing)								
Storage temperature	-25°C~55°C(excludebatteries)								
Operating Altitude	≤1000 mode rating 1% for each rising 100m								
Ingress Protection rating	IP 20/IP21								
Noiselevelat1m	≤55dBA(at1M)								
PHYSICAL									
Dimensions(mm)(W×D×H)	280x585 x655					380x815 x1050			
Packaged dimensions (mm) (W x D x H)	330x630 x700					430x865 x1100			
Net weight (kg)	40	55/60	75	85	100	120	135	170	185
Gross weight(kg)	50	65/70	85	98	118	135	150	180	200

Custom-made specifications are acceptable



## Our Clients



CENTRAL POLYTECHNIC COLLEGE



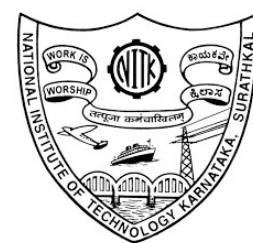
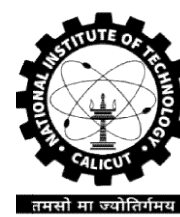
**CUSAT**



Government Engineering College



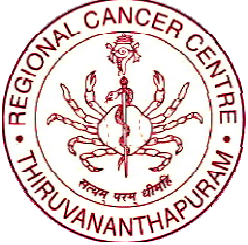
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