

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



About the PPX Series

Perpetual Power proudly presents the PPX Series, a Made-in-India single-phase UPS system featuring a galvanized output isolation transformer and an IGBT-mounted inverter. Designed for high-efficiency performance, it delivers active power output with efficiency levels ranging from 90% to 99.09%, making it ideal for critical power applications across various industry segments. The PPX Series incorporates the proven architectural quality of the DX Series along with Advanced Battery Management (ABM) technology, offering enhanced ease of use, extended backup performance, and superior reliability-perfect for safeguarding sensitive equipment in demanding environments.

Why Choose the PPX Series?

<p><u>Double Benchmark Designed Power System</u></p> <p>Engineered with dual benchmark standards to ensure unmatched power quality and performance across critical applications.</p>	<p><u>Reliability & Sustainability</u></p> <p>Built with robust components and advanced engineering to deliver long-term, reliable operation with energy-efficient design.</p>	<p><u>HRC Safety Device</u></p> <p>Equipped with High Rupturing Capacity (HRC) safety devices to provide maximum protection against electrical faults and over currents.</p>	<p><u>Cost-Effective & Economical</u></p> <p>Offers premium performance at a competitive price, making it a smart investment for both industrial and commercial needs.</p>	<p><u>i² Technology (Intelligent Inverter Technology)</u></p> <p>Powered by next-gen i² technology for intelligent power management, faster response time, and optimized inverter control.</p>
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2i Technology Design – Engineered for Excellence

The PPX Series is a pedometric 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.

High Reliability during Operation

Pure online technology with static bypass ensures strong protection against overloads and faults. The built-in manual maintenance bypass further enhances system reliability, enabling uninterrupted operation even during maintenance.

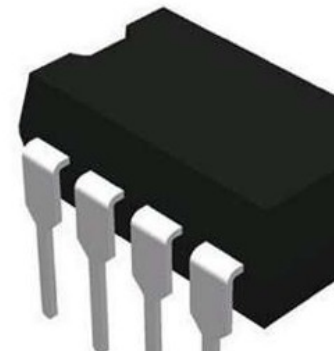


Strong Overload Protection with ITX

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.

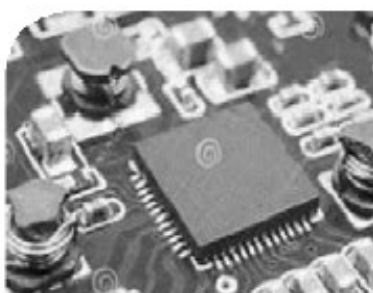
Advanced Power Conversion Technology

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.

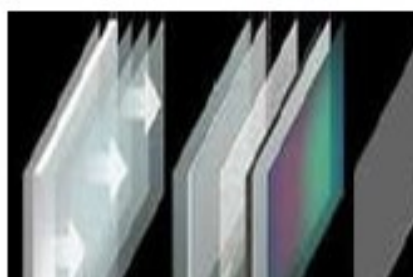


User-Friendly Network Management

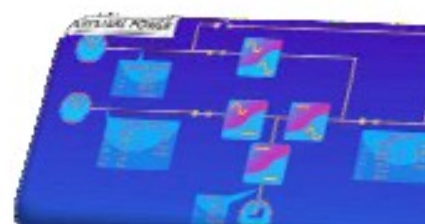
Communication with the computer is enabled via RS-232, using dedicated monitoring software. This allows real-time display of various system parameters through the communication interface, with optional network communication features available.



Complete system
superior by
Microcontroller

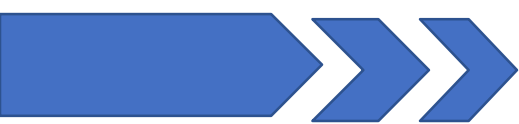


Display LCD+LED



HMI- Technology

Smart Air Vent Smart
Air Vent UPS



Technical Specifications – Built- in Transformer with IGBT

MODEL	PPXTG3310E	PPXTG3315E	PPXTG3320E	PPXTG3325E	PPXTG330E
CAPACITY	10KVA	15KVA	20KVA	25KVA	30KVA
INPUT					
Phase	Three Phase +N+PE				
Rated Voltage	380/400/415Vac				
Voltage Range	250~495Vac				
Frequency Rate	50Hz/ 60 Hz				
Frequency range	40~70Hz(auto-sensing)				
Power Factor	≥0.99@Nominal Voltage (100%load)				
Frequency tracking range	±5%Hz				
OUTPUT					
Voltage Range	3X360*/380/400/415VAC(3Ph+N)				
Voltage Regulation	±1%(static);±2%(typical);				
Frequency-synchronized range	45~55Hzor55~65Hz				
Frequency-Battery mode	Mains mode: track bypass input in the state of synchronization battery mode 50/60Hz±0.1Hz				
Waveform	Sinusoidal				
Power Factor	0.9				
Total harmonic distortion (THDv)	≤2%(linear Load),≤6%(non-linerLoad)				
Recovery time of transient voltage	<20 ms				
Crest factor	3:1				
Over load	100%<load≤125%for60min125%<load≤150%for60sec.				
BYPASS					
Rated Voltage	220/230/ 240Vac(Single phase +N+PE)				
Over load	Load current <150% rated current :long time running 150%≤load current<200%for1min.200%rated current≤load Current for200ms				
BATTERIES					
Features	External				
Type	VRLAAGM Sealed lead acid maintenance free battery				
Capacity	12V/upto200AH				
Numbers	8pcs~16 pcs settable16pcs~32 pcs settable				
Dc Voltage	96VDC~192 VDC(settable)		192VDC~384VDC(settable)		
Charging Current	Builin4Amp~40Amp(settable)				
Charging Output VDC	13.5 ±0.6/Pcs				
EOD	10.5VDC/Pcs				
Typical Recharge time	Standard model ;90% capacity restore din 3 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	In built Output Isolation transformer				
EMC	CISPR22CLASSA				
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 TypeD (3pin) grounded and (Type G,M,N,O, for international market standard)		Connections-socket		
Protections	Short-circuit, overload, over temperature, battery discharge protection and fan testing protection,Surge protection (for network/fax/ modem)				
SMARTRS-232USB	SupportsWindows2000/2003/XP/Vista/2008,Windows7/8/10,Linux and MAC				
*Optional SNMP	Power Management from SNMP manager and web browser				
Interface	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	≤1000 m derating 1% for each rising100m				
Ingress Protection rating	IP20/IP 21				
Noise level at 1m	≤55dBA(at1M)				
PHYSICAL					
Dimensions(mm)(W×D×H)	280x585x655		380x815x1050		
Packaged dimensions(mm)(WxDx H)	330x630x700		430x865x1100		
Net weight(kg)	85	100	120	135	170
Gross weight(kg)	90	118	135	150	180

***Accuracy weight±200gm

**Accuracy Dimension ±20mm

Derated capacity to 70% in CUCF mode and to 90% when the voltage is adjusted to 208Vac

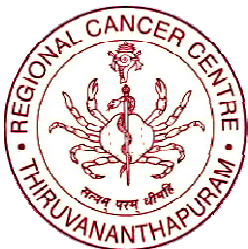
All Specifications are subject to change without notice

Custom-made specifications are acceptable





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