



## PT Series

10KVA-80KVA

3 Phase In - 3 Phase Out



### About the PT Series

Perpetual Power presents the PT Series Online UPS-a high-performance, fully digital uninterruptible power supply featuring advanced DSP (Digital Signal Processing) control technology. The system utilizes an online double-conversion topology to ensure maximum power reliability. Its DC/AC conversion is based on SPWM (Sinusoidal Pulse Width Modulation) technology, utilizing high-efficiency IGBT power modules and an output isolation transformer for enhanced performance and protection.

### Key Features – PT Series UPS

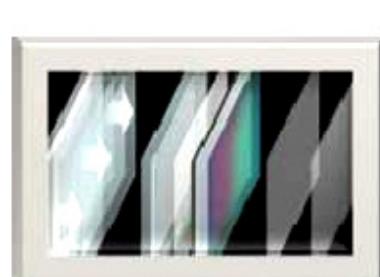
- Double Benchmark designed power System
- Reliability and safety Protection
- Superior Generator compatibility
- ABM Technology
- Strong load capacity and no switching time needed during the output.
- Power Supply Mode : 3-phase in/3-phase out
- Pluggable power module design with front access to decrease MTTR, 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 1
- Active power factor correction in all phases
- Built-in 7" touch LCD screen for comprehensive information
- Emergency power off function(EPO)
- 50Hz/60Hz frequency converter mode

### Benchmark Design

The PT Series is engineered as a performance benchmark, designed to adapt seamlessly to any environment. It features an intuitive LCD/LED display, multifunctional key operation, and a user-friendly HMI interface. Advanced multi-platform communication capabilities are integrated, along with strategically placed air vents on the front and side panels for optimal cooling and ventilation.



Complete system  
superior by  
Microcontroller



Display LCD+LED



HMI – Technology

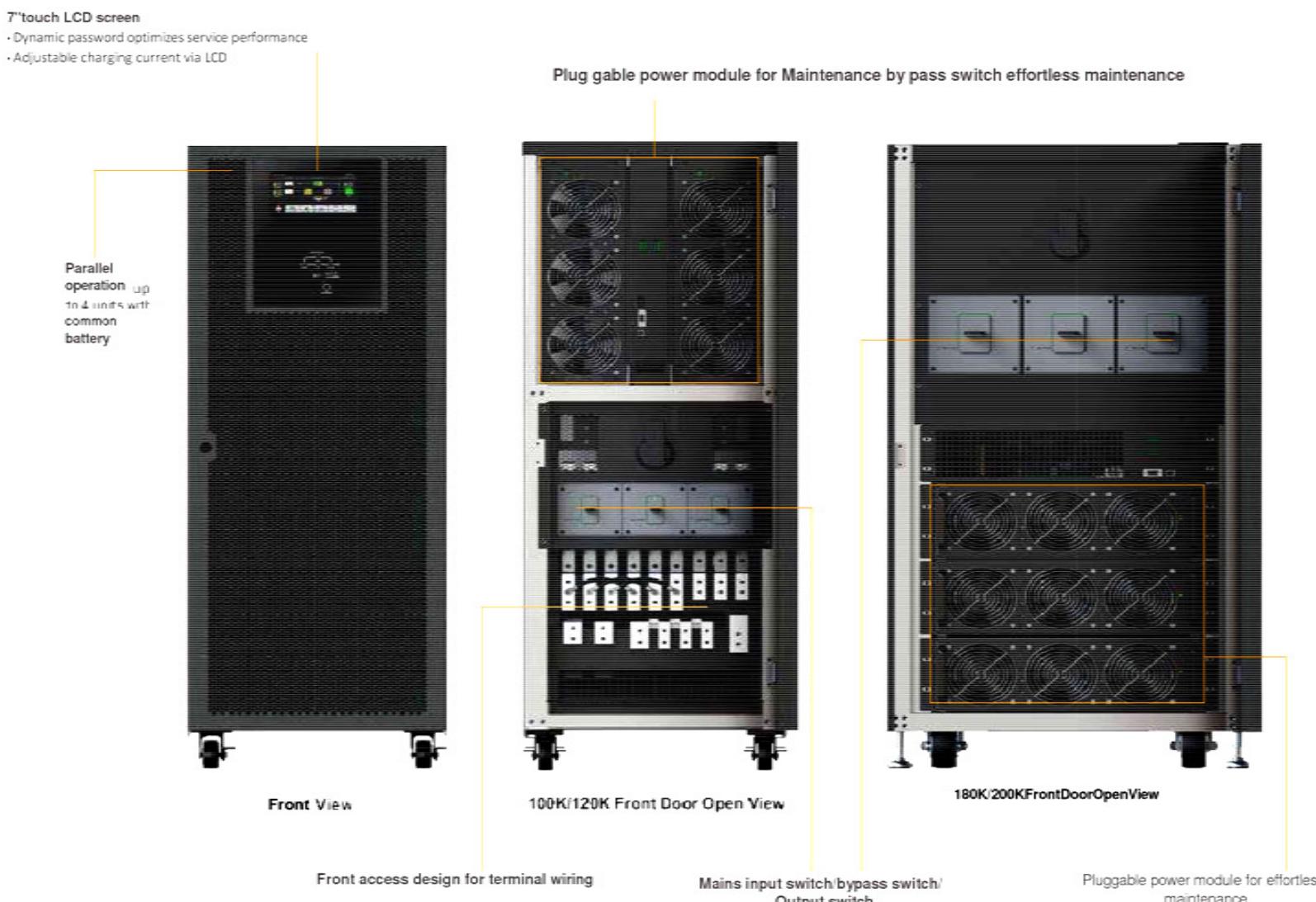


Smart Air Vent UPS



## Tremendous Benefits

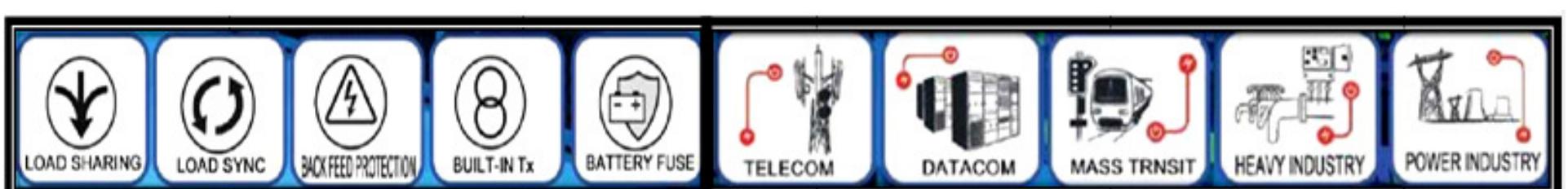
There are numerous advantages to deploying a Perpetual Power UPS. First and foremost, it protects against utility power failures and helps safeguard sensitive equipment-such as computers and network devices-from damage caused by power disturbances, which are increasingly common. The PT Series offers a cost-effective, high-quality solution, combining reliability with exceptional value.

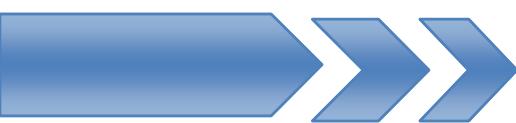


## Standard configure with Output Isolation Transformer: Optional



## Applications





## Technical Specifications

MODEL	PT33 10 ITE	PT33 15 ITE	PT33 20 ITE	PT33 30 ITE	PT33 40 ITE	PT33 60 ITE	PT33 80 ITE					
PHASE	3-phase in / 3-phase out											
CAPACITY	10 KVA	15 KVA	20 KVA	30 KVA	40 KVA	60 KVA	80 KVA					
PARALLEL CAPABILITY	Up to 6 units in parallel											
<b>INPUT</b>												
Nominal Voltage	380 / 400 / 415 VAC (3Ph+N)											
Voltage Range	-30% - +20%											
Frequency Range	40Hz -70Hz											
Power Factor	≥ 0.99 @ 100% Load											
Harmonic Distortion (THDi)	<3% ( Non-Linear Load)											
<b>OUTPUT</b>												
Output Voltage	360 / 380 / 400 / 415 VAC (3Ph+N)											
AC Voltage Regulation	± 1%											
Frequency Range (Synchronized Range)	46Hz - 54Hz or 56Hz - 64Hz											
Frequency Range (Online Mode)	50Hz - 60Hz ± 1%											
Current Crest Ratio	3:1(max.)											
Harmonic Distortion	≤ 1% THD (Linear Load) ≤ 3% THD (Non-Linear Load)											
Transfer Time	AC Mode to Batt.Mode	Zero										
	Inverter to Bypass	Zero										
Wave form	Pure Sine wave											
Overload Capability	100-110% for 30 Mins, 111-125% for 10 Mins, 126% - 150% for 1 Min > 150% or 400ms											
<b>BYPASS</b>												
Nominal Voltage	380 / 400 / 415 VAC ( 3Ph + N )											
Voltage Range	-30% - +20% (Adjustable)											
Frequency Range (Synchronized Range)	46Hz - 54Hz or 56Hz - 64Hz											
Overload Capability	>130% 1 Minute (Default) Continuously Working Until Breaker Protection (Optional)											
<b>EFFICIENCY</b>												
AC Mode	96.00%											
ECO Mode	99.00%											
Battery Mode	96.00%											
<b>BATTERY</b>												
Standard Model	Battery Type	12V / 9Ah	12V / 9Ah	12V / 9Ah	12V / 7Ah	12V / 9Ah	N/A					
	Numbers	(10+10) Pcs	(16+16) Pcs	(16+16) Pcs	(16+16)Pcs x 2 strings							
	Typical Recharge Time	9 hours recover to 90% capacity										
	Charging Current (Max.)	1A				2A						
	Charging Voltage	+/-136.5 VDC ± 10%	+/-218 VDC ± 10%									
Long-run Model	Battery Type	Depending on the applications										
	Numbers	+/-10 Pcs	+/- 16 Pcs - +/- 20 Pcs (Adjustable)									
	Charging Current (max.)	1A-12A (Adjustable)			1A-16A (Adjustable)	2A-24A (Adjustable)	2A-32A (Adjustable)					
	Charging Voltage	+/-136.5VDC ± 10%	+/-13.65V x N (N = 16 - 20)									
<b>INDICATORS</b>												
LCD Panel	UPS status, Load level, Battery level, Input / Output voltage, Discharge timer, and Fault conditions											
<b>QUALITY / SECURITY</b>												
Quality/Security	ISO9001:2015, ISO14001:2015, ISO 27001:2013, ISO45001:2018, ROHS											
<b>ENVIRONMENT</b>												
Operation Temperature	0-45°C											
Operation Humidity	< 95% and Non-Condensing											
Altitude	0-1500m at Full Load											
Noise Level	Less than 50 dB @ 1 Meter											
<b>MANAGEMENT CONTROL &amp; COMMUNICATION</b>												
Smart RS-232/USB	Supports Windows 2000 / 2003 / XP / Vista / 2008 , Windows 7 / 8 / 10, Linux and MAC											
Optional SNMP	Power Management From SNMP Manager and Web Browser											
<b>PHYSICAL</b>												
Standard Model	Dimension DxWxH (mm)	630 x 250 x 826			815 x 300 x 1000		N/A					
	Net Weight (Kgs)	124	139	225	250							
Long-run Model	Dimension DxWxH (mm)	630 x 250 x 826			815 x 300 x 1000		790 x 360 x 1010					
	Net Weight (Kgs)	28	43	60	67	108	113					

\*\*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



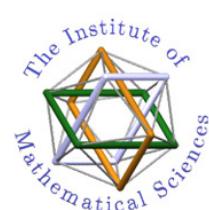
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CUSAT

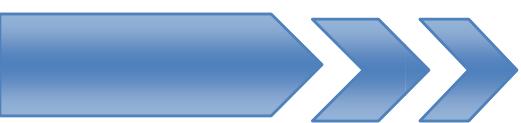


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