

PT Series

100KVA-200KVA

3 Phase In – 3 Phase Out



About the PT33 Series

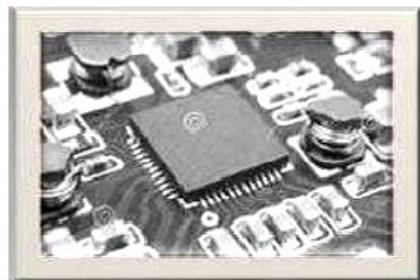
Perpetual Power presents the PT Series Online UPS-a high-performance, fully digital uninterruptible power supply featuring advanced DSP (Digital Signal Processing) control technology. The system utilizes an online double-conversion topology to ensure maximum power reliability. Its DC/AC conversion is 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 – PT33 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.



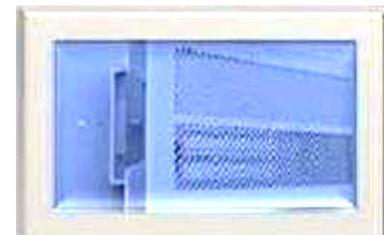
Complete system
superior by
Micro controller



Display LCD+LED



HMI Technology



Smart Air Vent UPS

Front / Rear View

7"touch LCD Screen

- Dynamic password optimizes service performance
- Adjustable charging current via LCD



7"touch
LCD Screen

Pluggable power module for Maintenance
bypass switch effortless maintenance



Access Design for
Terminal Wiring

100K/120K Front Door Open View



180K/200KFrontDoorOpen

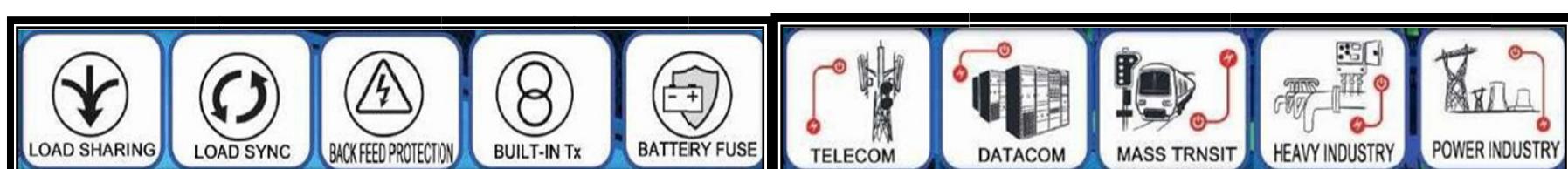
Mains input switch/ bypass
switch/ Output switch

Plug able power module for
effort less maintenance

Standard configure with Output Isolation Transformer: Optional



Applications



Technical Specifications

MODEL	PT 33-100K	PT 33-120K	PT 33-160K/180K	PT 33-200K
PHASE	3-phase in & 3-phase out			
CABINET CAPACITY	100KVA	120KVA	160KVA / 180KVA	200KVA
BATTERY TYPE	External Battery			
PARALLEL CAPABILITY	4 Units			
INPUT				
Nominal Voltage	380 / 400 / 415VAC (3Ph+N)			
Voltage Range	-30% +- 20%			
Nominal Frequency	50Hz / 60Hz (Auto Sensing)			
Frequency Range	40Hz-70Hz			
Power Factor	≥ 0.99 @ 100% load			
Harmonic Distortion (THDi)	≤1% (Linear Load), ≤3% (Non-Liner Load)			
OUTPUT				
Nominal Voltage	380 / 400 / 415 VAC (3Ph+N)			
Voltage Regulation (Ready State)	≤ ± 1%Typical (Balanced Load) ≤ ± 2%Typical (Unbalanced Load)			
Nominal Frequency	50Hz / 60Hz			
Frequency Regulation	50Hz ± 0.05Hz			
Overload Capability	110% for 30 Min,111-125% for 10 Min, 126%~150% for 1 Min >150% or 200Ms			
Harmonic Distortion	≤ 1% (Linear Load) ≤ 3% (Non-Liner Load)			
EFFICIENCY				
AC Mode	96.54%			
ECO Mode	99%			
Battery Mode	96.50%			
BY PASS				
Nominal Voltage	380 / 400 / 415VAC (3Ph+N)			
Voltage Range	-30% ~ +20%			
Frequency Range	46Hz~54Hz or 56Hz~64Hz			
Overload Capability	110% for 30 mins,111%~125% for 10 mins,126%~150% for 1 min and >150% for 200ms			
BATTERY				
Nominal Voltage	+/- 192V ~ +/- 240 V>Selectable)			
Maximum Voltage	+/- 240V (12Vx40 Pcs)			
Minimum Voltage	+/-192V (12Vx32 Pcs)			
Floating Charge Voltage	2.28V / Cell (2.25 ~ 2.33 Selectable)			
Boost Charging Voltage	2.35V / Cell			
Temperature Compensation	Yes			
Maximum Charging Current	24 A (Adjustable)	36 A (Adjustable)	54 A (Adjustable)	54 A (Adjustable)
ENVIRONMENT				
Operating Temperature	0-45°C			
Operating Humidity	<95% and Non-Condensing			
Altitude	<1000 m for Nominal Power			
MANAGEMENT				
Smart RS-232/USB	Supports Windows Family, Linux and MAC			
Optional SNMP	Power Management from SNMP Manager and Web Browser			
STANDARDS				
Safety	IEC/EN62040-1			
EMC	IEC/EN62040-2 Category C 3			
QUALITY / SECURITY				
Quality/Security	ISO9001:2015, ISO14001:2015, ISO 27001:2013, ISO45001:2018, ROHS			
PHYSICAL				
IP Class	IP20			
Dimension, D x W x H(mm)	1000 x 430 x 1200	1000 x 430 x 1200	1000 x 600 x 1200	1000 x 600 x 1200
Net Weight (Kgs)	200	200	265	265

**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.

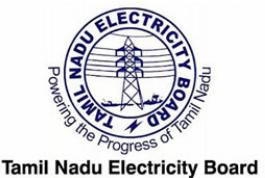
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Government Engineering College



Tamil Nadu Electricity Board

KSBCDC
Kerala State Backward Classes Development Corporation
(A Government of Kerala undertaking)

Kerala State SC Development Department

KARNATAKA STATE POLICE
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