





#### **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.

#### Why Choose the PT Series?

## Double Benchmark Designed Power System

Engineered for superior performance and power stability.

## High Reliability and Safety Protection

Ensures consistent, safe operation across all conditions.

## Excellent Generator Compatibility

Seamless integration with various generator types

# ABM (Advanced Battery Management) Technology

Optimizes battery performance and life.

#### Strong Load Capacity

Zero transfer time during output ensures uninterrupted power delivery.

## 3-Phase Input / 3-Phase Output

Supports industrial-grade power applications.

#### Pluggable Power Module Design

Front-access design simplifies maintenance and reduces MTTR; supports parallel redundancy for high availability.

# Parallel Operation with Common Battery Bank

Increases
flexibility and
system scalability.

### Power Walk-In Function

Smooth load transfer, minimizing electrical shock to power sources.

#### Dual Mains Inputs

Increases power
supply flexibility
and redundancy.

#### <u>Built-in</u> Switching System

Includes Mains
Input, Bypass
Input, Output, and
Maintenance Bypass
Switches for safe
and efficient
operation.

### Flexible Battery Configuration

Adjustable charging current to match different battery setups.

#### Output Power Factor = 1.0

Delivers full rated power to connected equipment.

## Active Power Factor Correction (PFC)

On all input phases to reduce harmonic distortion.

#### Built-in 7" Touch LCD Display

Provides intuitive access to realtime system data and control.

## Emergency Power Off (EPO) Function

Immediate shutdown capability for safety.

### Frequency Converter Mode

Supports both 50Hz and 60Hz output as required.

#### <u>Generator</u> Compatible

Operates reliably with generator power sources.



#### **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 multiplatform communication capabilities are integrated, along with strategically placed air vents on the front and side panels for optimal cooling and ventilation.







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.



#### **Features**

## DSP technology guarantees high reliability

 $\ensuremath{\mathsf{DSP}}$  and MCU dual chips to secure the product reliability.

#### Output power factor1.0

For critical applications, this 3-phase online UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

## Adapting the latest Silicon car bided iodesto enhance the system efficiency

Through adapting the latest Silicon car bide diodes, no matter it's in AC mode and battery mode ,the efficiency is higher than 96%.

#### Dual Inputs

PT33 series is also available for optional dual inputs to support various inputs to have flexibility for system configuration

#### Very powerful charger

Adapting the charger rating equals to 30% of UPS capacity on 10/20 Kva. Charger rating is Also 20% of UPS capacity for 30 Kva and above models

#### Adjustable charging

User scan adjust charging current via LCD setting based on various battery configurations.



## Parallel up to 6 units with common battery pack

Supports maximum 6 units in parallel with common battery pack for the parallel system.

#### Voice warning/error code notice

In built the speaker to have human voice for the warning /error codes notice instead of traditional beeps.

#### High over load capability

Supporting 110% overload capacity for 60 min and up to 1 min overload condition at 150% load.

## Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands.

### Dynamic password feature optimizes

This dynamic password is automatically generated from our exclusive utility tool. Each time when it is required to change service-related settings, this utility tool would generate an unique password on time basis. It secures UPS from unexpected operation due to

#### Power walk-in function

The PT33 Series supports an adjustable power walk-in feature, which allows gradual load transfer to the UPS over a defined period. This helps optimize generator sizing and reduces the stress on the AC source—especially beneficial when using multiple paralleled UPS systems during AC grid recovery.

#### Standard configure with Output Isolation Transformer: Optional





### PT Series 10KVA – 80KVA $3\phi$ in / $3\phi$ out Online UPS Selection Guide

MODEL		PT3310ITE*	PT3315ITE	PT3320ITE*	PT3330ITE*	PT3340ITE	PT3360ETE	PT3380ETE	
PHASE					3-phase in/3-phase out				
CAPACITY		10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA/30KW	40KV/40KW	60KVA/60KW	80KVA/80KW	
PARALLEL CAPABILITY		701(17,5101(0)	, , , , , , , , , , , , , , , , , , , ,	OLEO PROBA DE UNIT. DON PROBA 41	Up to 6 units in parallel	14 40 31 1013012 1310 10236 10 4 V.		33117,333111	
INPUT		op to o drille in paraller							
Nominal Voltage		3x380/400/415VAC(3Ph+N)							
Voltage Range		-30%~+20%							
Frequency Range		40~70Hz							
Power Factor		≧0.99@100%Load							
Harmonic Distortion(THDi)		<3% at full linear load							
ОИТРИТ									
Output Voltage		3x360*/380/400/415VAC(3Ph+N)							
AC Voltage Regulation (Batt. Mode)		±1%							
Frequency Range (Synchronized Range)		46~54Hzor56~64Hz							
Frequency Range (Batt. Mode)		50/60Hz±1%							
Current Crest Ratio		3:1(max.)							
Harmonic Distortion		≦1%THD(Linear Load);≦3%THD(Non-linear Load)							
Transfer	AC Mode to Batt. Mode	Zero							
Time	Inverter to Bypass	Zero							
Wave form (Batt. Mode)		Pure Sine wave							
Over load Capa	ability	100-110%for60min,111-125%for10min,126%~150%for1min;>150%or400ms							
BYPASS									
Nominal Voltag	ge	3x380/400/415VAC(3Ph+N)							
Voltage Range		-30%~+20%(Adjustable)							
Frequency Range(Synchronized Range)		46~54Hzor56~64Hz							
Overload Capability		>130%1minute(default) Continously working until breaker protection(optional)							
EFFICIENCY		g a.m. 2. sano. p. sassa. (aphana)							
AC Mode		96.0%							
ECO Mode		99.0%							
Battery Mode		96.0%							
BATTERY		90.076							
Standard Model	Battery Type	12V/9Ah	12V/9Ah	12V/9Ab	12V/7Ah	12V/9Ah			
	Numbers			12V/9Ah		12V/9Ah			
		(10+10)pcs	(16+16)pcs	(16+16)pcs	(16+16)pcsx2strir	ngs	_		
	Typical Recharge Time	9 hours recover to 90% capacity  1A~16A						N/A	
	Charging Current(max.)	1A~12A(Adjustable)				(Adjustable)			
	Charging Voltage	+/-136.5VDC ±10%							
	Battery Type	Depending on the applications							
Long-run Model	Numbers	+/-10pcs +/-16pcs~+/-20pcs(Adjustable)							
	Charging Current(max.)		1A~12A(Adjustable)			1A~16A (Adjustable)	2A~24A (Adjustable)	2A~32A (Adjustable)	
	Charging Voltage	+/-136.5VDC± 10% +/-13.65VxN(N=16~20)							
INDICATORS		T/-10.05 VAIV(N=10-20)							
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage ,Discharge timer, and Fault conditions							
PHYSICAL			, =	,,	, , , , , , , , , , , , , , , , , , , ,	J = 1.1.			
Standard	Dimension, D x W x H (mm)		630x250x826		815x300x1000				
Model  Long-run Model		124	139		225	250	N/A		
	Net Weight (kgs)	124	630x250x826		11.00.000	250	700v260v1010		
	Dimension,D x W x H (mm)				815x300x1000	67	790x360x101		
	Net Weight (kgs)  ENVIRONMENT		28 43 60				108	113	
Operation Tem		0-40°C							
Operation Humidity		<95%andnon-condensing							
Altitude**		0~1500mat full load							
Noise Level		Less than 60dB@1Meter Less than 63dB@1Meter					Less than 65dB@1Meter		
MANAGEMENT		Less than of	Less than bodb@ livieter Less than bodb@ livieter Less than bodb@ livieter						
Smart RS-232		Supports Windows <sup>2</sup> 2000/2003/XP/Vista/2008,Windows <sup>2</sup> 7/8/10,LinuxandMAC							
Optional SNMP		Supports Windows 2000/2003/XP/Vista/2008, Windows 27/8/10, LinuxandMAC  Power management from SNMP manager and webbrowser							
- p		r ower management nom oranii manager and webbrowser							

<sup>\*</sup>If output voltage is set as 3x360VAC, the output power of the unit will be de-rated to 90%.

#### **Applications**



<sup>\*\*</sup>If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be de rated 1% per 100m.Product specifications are subject to change without further notice.

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#### **Our Clients**







































































































































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