

DATASHEET

PX SERIES POWER PRODUCTS

Online Un interruptible Power Supply (UPS)

PXe-UH33 Series

Index

PXe-UH Series 3 Phase in/Out 10kVA ~ 80kVA	Page 3
Features	Page 4
Technical Specification	Page 5
PXe-UH Series 3 Phase in/Out 100kVA ~ 200kVA	Page 6
Product Outlook	Page 6
Technical Specification	Page 7

About

PX Electronic specialise in the design of electrical power measuring instrumentation. Including power analysers, High Voltage Switching, HiPot Testing, ground bond testing and DC loads. Our product expertise and consultancy includes applications associated with electrical safety equipment, AC power analysis, energy instruments and current sensors and current probes. Applications include EV, wind turbines, green power, automation, military power systems, power electronics, power conversion, electric cars, generators, motors, fans and pumps.

Our range of Test & Measuring products includes power analysers, single & three phase watt meters measuring from DC to 2MHz along with HV related switching and IR measurement products.

PX offers PC based software solutions. This enables PX measuring instruments and transducers to be controlled via USB, Ethernet, RS232, RS485 and IEEE-488 interfaces. Various display and storage options are available to suit the customer's need. An "in house" software customisation service is available.

PX has a global support network, enabling us to distribute our products worldwide from a variety of distributors and representatives to meet the needs of our customers.

PXe-UH33 Series 10kVA (3 Phase in 3 Phase Out) PXE Online UPS Selection Guide

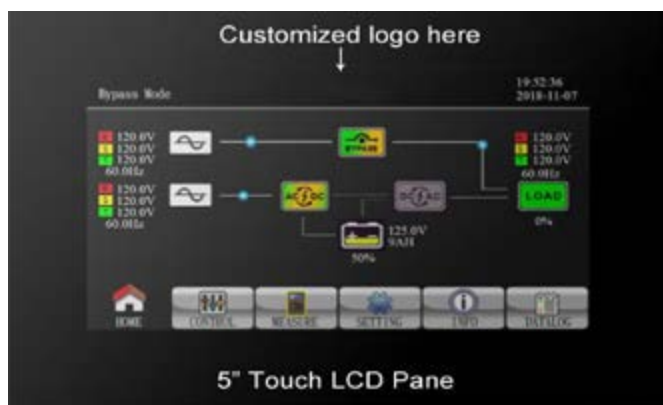
An Uninterruptible Power Supply (UPS) has only one mission to protect the load when the power goes out.

When a power disturbance occurs, mission critical power users, who cannot afford an interruption in power, need a method to bridge the gap between the loss of utility and Emergency Generators



**PXe=UPS Series 3Phase
In/Out 10kVA ~ 200kVA
Uninterruptible Power Supply
PXe Online UPS Selection Guide**





■ DSP technology guarantees high reliability

DSP and MCU dual chips to secure the product reliability.

■ Output power factor 1

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

■ Adapting the latest Silicon carbide diodes to enhance the system efficiency

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

■ Dual Inputs

PXe-UH33 series is also available for optional dual inputs to support various inputs to have flexibility for system configuration.

■ Very powerful charger to shorten the recharge time

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

■ Adjustable charging current

Users can adjust the charging current via LCD settings based on various battery configurations.

■ Parallel up to 6 units with common battery pack

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

■ 5" color touch type LCD display

Inbuilt 5" color touch type LCD display with 500 event/data logs.



60KU80KL 30K(L)/40K(L) 10K(L)/15K(L)/20K(L)

■ Optional programmable relay dry contact card

Configurable 4 dry contact ports definition through software for various applications.

■ Voice warning / error code notice

The in-built speaker has a human voice for warning/ error codes instead of a traditional beep.

■ High overload capability

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

■ Adjustable battery design

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

■ Dynamic password feature optimizes service performance

This dynamic password is automatically generated from our exclusive utility tool. Each time when a change to service related settings is required, the utility tool will generate a unique password. It secures the UPS from unexpected operation and unauthorised settings.

■ Power walk-in function

PXe-UH33 is designed to have a flexible power walk-in by way of adjusting the power walk-in time. This setting will optimise generator sizing and reduce the impact to the AC source by having different walk-in time periods for different paralleled UPS systems when the AC grid is recovering.

Technical Specification (Note: The below specs are subject to change without notice)								
MODEL PXe-UH-		33-10K (L)*	33-15K (L)	33-20K (L)*	33-30K (L)*	33-40K (L)	33-60KL	33-80KL
Phase		3-phase in / 3-phase out						
Capacity		10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA/30KW	40KV /40KW	60KVA/60KW	80KVA/80KW
Parallel Capability		up to 6 units in parallel						
INPUT								
Nominal Voltage		x 380/400/415 VAC (3Ph+N)						
Voltage Range		-30%~ +20%						
Frequency Range		40~70 Hz						
Power Factor		≥ 0.99 @100% Load						
Harmonic Distortion (THDi)		< 3% at full linear load						
OUTPUT								
Output Voltage		3 x 360' /380/400/415 VAC (3Ph+N)						
AC Voltage Regulation (Batt. Mode)		±1%						
Frequency Range (Synchronized Range)		46-54Hz or 56-64Hz						
Frequency Range (Batt. Mode)		50/60 Hz± 1%						
Current Crest Ratio		3:1 (max.)						
Harmonic Distortion		≤ 1 % THD (Linear Load) ; a. 3 % THD (Non-linear Load)						
Transfer Time	AC Mode to Batt. Mode	Zero						
	Inverter to Bypass	Zero						
Waveform (Batt. Mode)		Pure Sine wave						
Overload Capability		100- 110% for 60 min, 111-125% for 10 min, 126%-150% for 1 min; >150% or 400ms						
BYPASS								
Nominal Voltage		3 x 380/400/415 VAC (3Ph+N)						
Voltage Range		-30% - +20% (Adjustable)						
Frequency Range (Synchronized Range)		4 6-54Hz or 56-64Hz						
Overload Capability		> 130% 1 minute (default) Continuously working until breaker protection (option all						
EFFICIENCY								
AC Mode		96.0%						
ECO Mode		99.0%						
Battery Mode		96.0%						
BATTERY								
Standard Model	Battery Type	12V/9Ah	12 V/9 Ah	12 V/9 Ah	12 V/7 Ah	12 V/9 Ah	N/A	
	Numbers	(10+10) pcs	(1 6+16) pcs	(16+16) pcs	(16+16) pcs x 2 strings			
	Typical Recharge Time	9 hours recover to 90% capacity						
	Charging Current (max.)	1A~ 12A(Adjustable)				1A~ 16A		
	Charging Voltage	+/-136.5 VDC ± 10%	+/-218 VDC ± 10%					
Long-run Model	Battery Type	Depending on the applicat ions						
	Numbers	+/- 10 pcs	+/-16 pcs ~ +/- 20 pcs (Adjustable)					
	Charging Current (max.)	1A~ 12A(Adjustable)				1A~ 16A	2A~ 24 A	2A~ 32A
	Charging Voltage	+/-136.5 VDC ± 10%	+/-13.65V x N (N=16-20)					
INDICATORS								
LCD Panel		UPS status, Load level , Battery level, InpuUOutput voltage, Discharge timer, and fault conditions						
PHYSICAL								
Standard Model	Dimension,DxVVxH (mm)	630 X 250 X 826			815 X 300 X 1000		N/A	
	Net Weight (kgs)	124	139	225	250			
Standard Model	Dimension,DxVVxH (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	
ENVIRONMENT								
Operation Temperture		0~40°C						
Operation Humidity		< 95% and non-condersing						
Altitude**		0 ~ 1500m at full load						
Noise Level		Less than 60 dB @1 Meter			Less than 63 dB @1 Meter		Less than 65 dB @1 Meter	
MANAGEMENT								
Smart RS-232 / USB		Supports WIndows2 2000/2003/XPNista/2008, WIndows2 7 /8/10, Linux and MAC						
Optional SNMP		Power management from SNMP manager and web browser						

* If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.

**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.

PXe-UH33 Series 10kVA~200kVA (3 Phase in 3 Phase Out) 100kVA~200kVA

- 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)
- Generator compatible
- 50Hz/60Hz frequency converter mode



180KL/200KL

100KL/120KL

Product Outlook

7" touch LCD screen

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

Pluggable power module for effortless maintenance

Parallel operation up to 4 units with common battery

Maintenance bypass switch



Front View



100K/120K Front Door Open View



180K/200K Front Door Open View

Front access design for terminal wiring

Mains input switch/bypass switch/ output switch

Pluggable power module for effortless maintenance

Technical Specification (Note: The below specs are subject to change without notice)				
MODEL PXe-UH-	33-100KL	33-120KL	33-2180KL	33-200KL
Phase	3-phase in / 3-phase out			
Capacity	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
Battery Type	External BAattery			
Parallel Capability	4			
INPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	110-300 VAC @50% load; 176-276 VAC@100% load			
Nominal Frequency	50/60Hz (Auto sensing)			
Frequency Range	40Hz -70Hz			
Power Factor	≥0.99 @ 100% load			
Harmonic Distortion (THDi)	< 4% at full linear load			
OUTPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Regulation (Steady stale)	≤ ± 1 % Typical (balanced load) ≤ ± 2% Typical (unbalanced load)			
Nominal Frequency	50/60Hz			
Frequency Range (Synchronized range)	46Hz - 54Hz or 56Hz - 64Hz			
Overload Capability	≤ 110% for 1 hour, 111%~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms			
Harmonic Distortion	≤ 2% THD (Linear Load) , ~ 4% THD (Non-linear Load)			
BYPASS				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	-30% ~ +20%			
Frequency Range (Synchronized Range)	46Hz - 54Hz or 56Hz - 64Hz			
Overload Capability	≤ 110% for 1 hour, 111% - 125% for 10 mins, 126%-150% for 1 min and >150% for 200ms			
EFFICIENCY				
AC Mode	95.5%			
ECO Mode	98.5%			
Battery Mode	94.5%			
BATTERY/CHARGER				
Nominal Voltage	+/-192V - +/- 240V (Selectable)			
Maximum Voltage	+/- 240V (1 2V x 40 Pcs)			
Minimum Voltage	+/- 192V (12V x 32 Pcs)			
Floating Charge Voltage	2.28V I Cell (2 25 - 2.33 Selectable)			
Boost Charging Voltage	2.35V/Cell			
Temperature Compensation	Yes			
Maximum Charging Current (Per Power Module)	24A (Adjustable)	36A(Adjustable)	54A (Adjustable)	54A (Adjustable)
PHYSICAL				
IP Class	IP20			
Dimension, D x W x H (mm)	1000 X 430 X 1200	1000x430 x 1200	1000 X 600 X 1200	1000 X 600 X 1200
Net Weight (Kgs)	200	200	265	265
ENVIRONMENT				
Operation Temperture	0-40°C			
Operation Humidity	< 95 % and non-condensing			
Altitude**	<1000m 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/EN 62040-1			
EMC	IEC/EN 62040-2 Category C3			

* If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.

**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.

Document Rev-V1.1
Copyright © 2025 PE Electronics

PX Electronics
13b Southview Park,
Marsack Street,
Reading
Berkshire
RG4 5AF
United Kingdom



Tel: +44 118 206 7525
Email: info@pxelectronic.com
Website: www.pxelectronic.com