

PXe-UH33 SERIES - 10kVA ~ 200kVA (3 PHASE IN 3 PHASE OUT)



10KVA ~ 200KVA

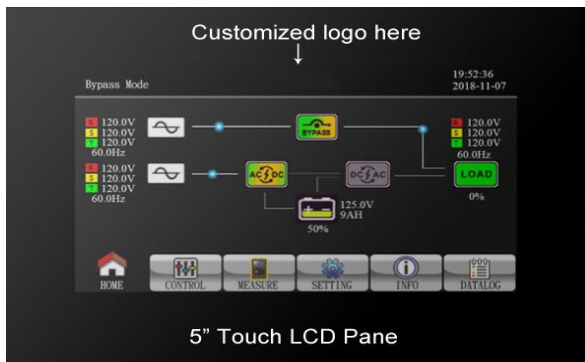
PXe-UPS SERIES 3PHASE
IN/OUT 10kVA ~ 200kVA
UNINTERRUPTIBLE POWER SUPPLY
PXe Online UPS Selection Guide



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-UH33 SERIES 3PHASE IN/OUT 10kVA ~ 80kVA



60KL/80KL

30K(L)/40K(L)

10K(L)/15K(L)/20K(L)

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

- 💡 Optional programmable relay dry contact card**
 Configurable 4 dry contact ports definition through software for various applications.
- 💡 Voice warning / error code notice**
 Inbuilt the speaker to have human voice for the warning / error codes notice instead of traditional beeps.
- 💡 High overload 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 service performance**
 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 a unique password on time basis. It secures UPS from unexpected operation due to unauthorized settings.
- 💡 Power walk-in function**
 PXe-UH33 is designed to have flexible power walk-in by way of adjusting the power walk-in time. This setting will optimize generator sizing and reduce the impact to the AC source by having different walk-in time period for different paralleled UPS system when AC grid is recovered.

Technical Specification

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		3 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) ; ≧ 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)		46~54Hz or 56~64Hz							
Overload Capability		> 130% 1 minute (default) Continuously working until breaker protection (optional)							
EFFICIENCY									
AC Mode		96.0%							
ECO Mode		99.0%							
Battery Mode		96.0%							
BATTERY									
Standard Model	Battery Type	12 V/9 Ah	12 V/9 Ah	12 V/9 Ah	12 V/7 Ah	12 V/9 Ah	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 ~ 12A (Adjustable)				1A ~ 16 A (Adjustable)			
	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 ~ 16 A (Adjustable)	2A ~ 24 A (Adjustable)	2A ~ 32A (Adjustable)	
	Charging Voltage	+/-136.5 VDC ± 10%	+/-13.65V x N (N=16~20)						
INDICATORS									
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions							
PHYSICAL									
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		
ENVIRONMENT									
Operation Temperature		0~40°C							
Operation Humidity		< 95% and non-condensing							
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 Windows ² 2000/2003/XP/Vista/2008, Windows ² 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 derated 1% per 100m.

PX Electronics Reserves the right to change or modify product design,construction,specification or material without prior notice and without incurring any obligation.

PXe-UH33 **SERIES** 3PHASE IN/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



Product Outlook

7" touch LCD screen

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



PXe-UH33 SERIES - 10kVA ~ 200kVA

Technical Specification

MODEL (PXe-UH-)	33-100KL	33-120KL	33-180KL	33-200KL
PHASE	3-phase in / 3-phase out			
CABINET CAPACITY	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
BATTERY TYPE	External Battery			
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 state)	≤ ± 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)			
EFFICIENCY				
AC Mode	95.5%			
ECO Mode	98.5%			
Battery Mode	94.5%			
BYPASS				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	-30% ~ +20%			
Frequency 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			
BATTERY / CHARGER				
Nominal Voltage	+/- 192V ~ +/- 240V (Selectable)			
Maximum Voltage	+/- 240V (12V x 40 Pcs)			
Minimum Voltage	+/- 192V (12V x 32 Pcs)			
Floating Charge Voltage	2.28V / 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	1000 x 430 x 1200	1000 x 600 x 1200	1000 x 600 x 1200
Net Weight (Kgs)	200	200	265	265
ENVIRONMENT				
Operating Temperature	0-40°C			
Operating 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 derated 1% per 100m.

PXE Electronics Reserves the right to change or modify product design,construction,specification or material without prior notice and without incurring any obligation.