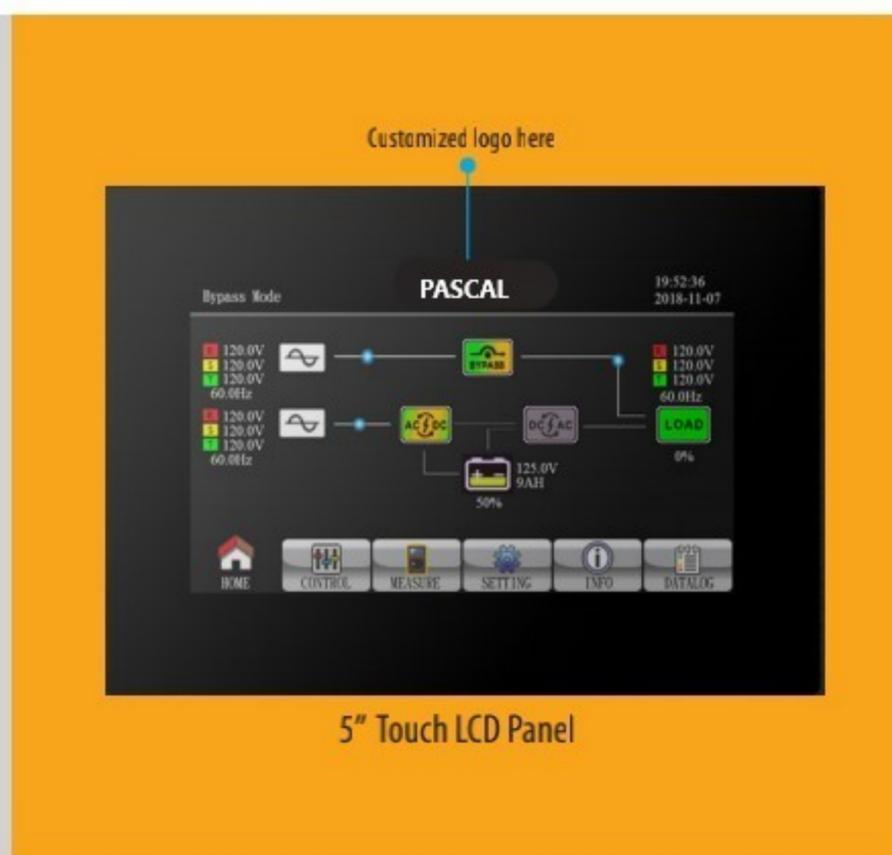


PASCAL KHT33 SERIES 10-80KVA



- **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**

PASCAL KHT 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 an unique password on time basis. It secures UPS from unexpected operation due to unauthorized settings.

- **Power walk-in function**

KHT SERIES 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.

SPECIFICATION

ONLINE UPS

MODEL	PCL-10KHT33(L)	PCL-15KHT33(L)	PCL-20KHT33(L)	PCL-30KHT33(L)	PCL-40KHT33(L)	PCL-60KHT33L	PCL-80KHT33L	
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® 2000/2003/XP/Vista/2008, Windows® 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.

Product specifications are subject to change without further notice.