

# KL SERIES

11kVA-800kVA  
ONLINE UPS

3:3  
PHASE

IN-BUILT  
ISOLATION



## Introduction

KL series Online UPS, adopt double conversion design and with in-built isolation transformer which can ensure a better output electrical performance and meet the requirements of equipment. LCD+LED visible interface and flexible operation also enhance customer satisfaction.

## Application Area



Data Center



Finance Network



Security Monitoring



Automatic Control



Communication Server



Self-service System

## Features

- True online double conversion design
- PWM Technology
- Pure Sine Wave Output with THD < 3%
- IGBT Based
- Large input operating range, eliminates unnecessary battery discharge
- UPS startup without battery
- Multi-functional LCD/LED display
- In-built Galvanic Isolation
- Simple and User friendly operation
- Advanced Battery Management
- Automatic Battery Charge in UPS Off Mode
- Static Bypass and Cold Start
- EMI/RFI and Noise Filter
- Generator Compatible
- Auto-restart Function
- Dual Input
- Emergency power off function option
- Parallel option upto 6 unit

RoHS CE



## Electrical Parameters

Model KL	11K33	20K33	30K33	40K33	60K33	80K33	100K33	120K33	160K33	200K33	300K33	400K33	500K33	600K33	800K33			
CAPACITY (VA/W)	8kW	20kVA/ 16kW	30kVA/ 24kW	40kVA/ 32kW	60kVA/ 48kW	80kVA/ 64kW	100kVA/ 80kW	120kVA/ 96kW	160kVA/ 128kW	200kVA/ 180kW	300kVA/ 270kW	400kVA/ 360kW	500kVA/ 450kW	600kVA/ 540kW	800kVA/ 720kW			
<b>INPUT</b>																		
Input Phase	3PH+N+PE																	
Rated Input Voltage	380/400/415 Vac																	
Acceptable Voltage Range	285-500Vac																	
Frequency Range	45-55Hz @50Hz , 55-65Hz@60Hz, Auto Sensing for 50/60Hz UTILITY																	
Power Factor	>=0.8 (>=0.97, with optional filter)																	
Generator Input	Support																	
<b>OUTPUT</b>																		
Voltage	380/400/415 Vac																	
Power Factor	0.8										0.9							
Voltage Regulation	±1%																	
Frequency Range	±0.05% , Synchronized with utility on AC mode																	
Current Crest Ratio	3:1																	
Harmonic Distortion	<=2% THD (Linear Load)																	
Output Waveform	Pure Sinewave																	
Phase Tolerance	120°±1° (Balanced and Unbalanced Load)																	
Overload Capacity	105%~110%, 60min~110%~125% 10min~125%~150% 1min																	
Transfer Time	0ms (Utility to Battery), 0ms (Utility to Bypass)																	
Economic Mode (ECO Mode)	Support (set by LCD)																	
Bypass output when UPS off	Support (set by LCD)																	
Efficiency	Up to 94% Double Conversion Mode, 99% Eco Mode																	
<b>BATTERY</b>																		
Quantity (12V DC)	30/31/32 pcs. can be set as per requirement												40 pcs	40 pcs	50 pcs			
Charging current (A) (max.)	9.1A	18.2A	27.3A	36.4A	54.6A	72.8A	91A	109A	145.6A	150A	150A	150A	150A	150A	150A			
Charge Model	Float																	
Charging voltage (VDC)	(Depend upon no.of battery)																	
<b>Function, Communication &amp; Standard</b>																		
Display	LCD+LED (Load/Battery/Input/Output/Operating Mode Information)																	
Protection Function	Over Temperature, Fan Fault, EPO, Output short Circuit, Low Voltage of Battery, Over or lack of input Voltage, overload and so on																	
Communication	Standard: RS232 Optional: USB, RS485, Dry contact, Intelligent slot, Parallel, SNMP card, Relay card, Modbus																	
Standard	IEC/EN62040-1, 62040-2, 62040-3, Complying to CE																	
<b>ENVIRONMENT</b>																		
Operating temperature	Operating: 0~45°C, Storage: -25°C ~ 55°C																	
Relative Humidity/Altitude	0-95% RH Non-condensing / <1500m. when >1500m, derating																	
Noise Level	Low Audible Noise Level																	
<b>PHYSICAL</b>																		
Dimension (DxWxH) mm	650x350x1050			830x430x1100			690x720x1400			790x890x1600			800x 1200x 1600	1000x1400x1900		1000x 2580x 1900	1040x 2800x 1900	1040x 3280x 1900
Net Weight (kg)	145	155	190	242	315	365	420	635	740	1030	1560	1640	3510	3950	4950			