KL SERIES

6kVA-10kVA **1:1** PHASE

11kVA-40kVA **3:1** PHASE

ONLINE UPS

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.



Control Panel

Application Area



Data Center



Education System



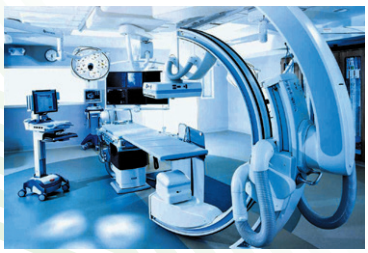
E-Governance



Automatic Control



Telecommunication



Medical Equipment

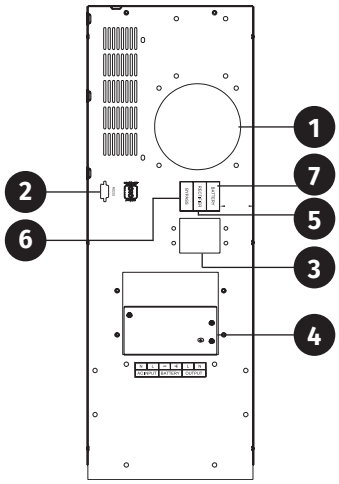
Features

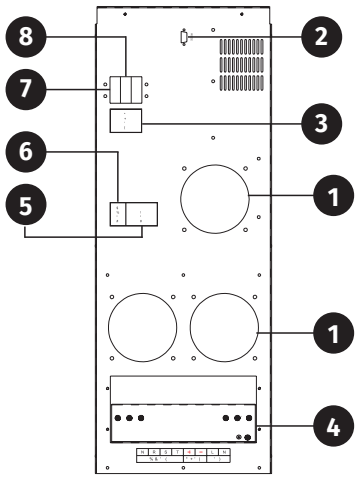
- True online double conversion design
- PWM Technology
- Pure Sine Wave Output with THD < 3%
- IGBT Based
- Large input operating range, eliminates unnecessary battery discharge
- UPS startup without battery
- Multi-functional LCD/LED display
- In-built Galvanic Isolation
- Simple and User friendly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

RoHS CE IS 16242 (Part 1)/ IEC 62040-1 R-41033642

ISO 9001 CERTIFIED ISO 14001 CERTIFIED OHSAS 18001 CERTIFIED

Back Panel





1. Fan
2. RS232
3. Maintenance switch (optional)
4. Wire harness mount
5. Input Circuit breaker
6. Bypass Circuit breaker
7. Battery Circuit breaker
8. Output Circuit breaker

Electrical Parameters

Model	KL6000	KL10000	KL11K31	KL15K31	KL20K31	KL30K31	KL40K31
CAPACITY(VA/W)	6kVA/4.8kW	10kVA/8kW	8kW	15kVA/12kW	20kVA/16kW	30kVA/24kW	40kVA/32kW
INPUT							
Input Phase	Single phase with ground		3PH+N+PE				
Rated Input Voltage	220Vac/230Vac/240Vac		380/400/415Vac				
Acceptable Voltage Range	160-280Vac		380/400 Vac +/- 20%				
Frequency Range	50Hz (60 Hz) +/- 5%		50Hz (60 Hz) +/- 5%				
Power Factor	>0.8		0.85-0.95				
Generator Input	Support		Support				
OUTPUT							
Voltage	230Vac						
Power Factor	0.8						
Voltage Regulation	±1%						
Frequency Range	±0.5% (Battery Mode)						
Current Crest Ratio	3:1						
Harmonic Distortion	<=3% THD (Linear Load)						
Output Waveform	Pure Sinewave						
Overload Capacity	When load reaches 110~150% of rating, transfer to bypass after 30s, recover auto after unload.						
Transfer Time	0ms (Utility to Battery)						
Bypass output when UPS off	Yes						
Efficiency	Up to 94% Double Conversion Mode						
BATTERY							
Quantity (12V DC)	16		16			20	
Charging current (A) (max.)	6A, 12A (Optional)						
Charge Model	Float						
Charging voltage (VDC)	219.2+/-1%					274+/-1%	
Function, Communication & Standard							
Display	LCD+LED (Load/Battery/Input/Output/Operating Mode Information)						
Protection Function	Output short Circuit, Low Voltage of Battery, Over or lack of input Voltage , overload and so on						
Communication	Standard: RS232 Optional: Rs485, SNMP Card, Parallel Card, Dry Contact						
Standard	IEC/EN62040-1, 62040-2, 62040-3, Complying to CE, BIS						
ENVIRONMENT							
Operating temperature	Operating: 0~45°C, Storage: -25ºC ~ 55ºC						
Relative Humidity/Altitude	0~95% RH Non-condersing /<1500m. when >1500m, derating						
Noise Level	Low Audible Noise Level						
PHYSICAL							
Dimension (DxWxH) mm	230x580x720	585x305x864		798x409x1044	741x555x1200	741x555x1200	800x600x1200
Net Weight (kg)	63	115	132	200	236	323	380