

POWERCOM UPS

KAL Series User Manual

Thank you for selecting World No.2 & ISO9001:2000 certified Uninterruptible power supply system (UPS). It provides perfect protection for your computers. The Manual Provides you with step by step guidance to install & use UPS. It contains important safety instructions for operation & correct installation of the UPS .In case you have any problem with the UPS please refer to this manual before calling customer service.

PRESENTATION

The UPS is a Line interactive uninterruptible power system (UPS). When utility input is Normal, the UPS would provide surge protection to equipment and energy to charge the internal battery. If the utility input is abnormal, the UPS can supply AC power to the load immediately without resetting the computer.

The UPS:

1. Utilizes microprocessor based controls, to get assurance of reliability.
2. Automatic frequency selection to match with utility power.
3. Advanced battery management to prolong battery's life and fully charge the battery.
4. Overload & short circuit protection both in line and battery mode.



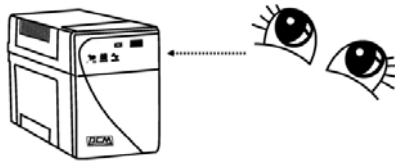
KAL Series UPS is designed keeping in mind severe Indian Conditions. It has below unique features, which no ordinary UPS provides.

INDIA SPECIFIC FEATURES OF UPS

1. AVR Input Range 140V - 300V.
2. Two Indian output 5 pin sockets.
3. Circuit breaker protection.
4. OFF mode battery charging.
5. Tel/Modem/Lan Surge protector
6. Extended Backup Time

A. Inspect UPS

Remove the UPS from its package and inspect it for damage that may have occurred during shipping. If any damage is found, re-pack the unit and return it to the place of purchase.



B. Connect External Battery

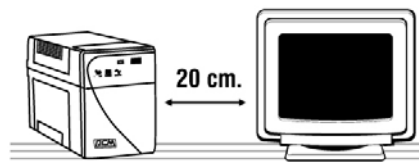
Connect single external battery (26AH-42AH), using given battery cable. Charge battery for 16 hours for first time run.

C. Install UPS

- Do not place UPS in Direct sunlight.
- Do not place UPS near Excessive heat source
- Do not place UPS near Excessive humidity or let UPS come in contact with liquids.



Place the UPS atleast 20cms away from the monitor to avoid interference.



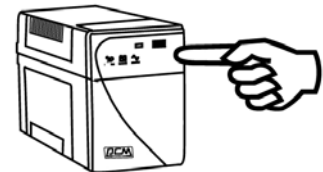
D. Connect Computer to UPS

This UPS is equipped with 2 battery backup outlets. Data sensitive equipment such as a computer, and monitor should be powered by battery backup outlets. Battery power is provided without restart in case of power failure.

Note : Do Not Plug a laser printer, copier, heaters, or other large electrical device into the UPS. The power demands of these devices will overload and possibly damage the UPS.

E. Turn on/off UPS

Plug in the 3 pin power cord into 230V AC wall outlet. Press power switch for 5 seconds lightly to turn on the UPS. To turn off the UPS, just press the power switch for 5 seconds again. Do NOT press the switch too hard for extended life of the power switch.



F. User Interface

Front Panel:

The front panel incorporates one LED and a switch. The functions of these are listed below:



LED Status:

1. AC Mode : Green light steady.
2. Backup Mode : Green light blinking

Alarms:

1. Backup Mode : When in backup mode, the green LED blinks and the UPS Beeps every 2 seconds.
2. Battery low: Rapid beeping sound every half second.
3. Overload : Continuous beeping sound.

GLOBAL LEADER IN POWER PROTECTION

Specifications - KAL Series

Features

- Line interactive design
- Extended backup time up to 2 hours
- UPSMON Software included
- Boost and buck AVR (Auto voltage regulation)
- Cold start function (DC power on)
- Advanced battery management (ABM technology)
- Battery charging in UPS OFF Mode
- Charger Capacity 2.6 AMP
- Can connect from 26AH to 42 AH Batteries



Model		KAL300A	KAL500A
Input	Capacity	300VA / 180W	500VA / 300W
	Voltage	230V	
Output	Frequency	45-65Hz	
	AVR	140V-300V	
	Generator Compatible	Yes	
	Connection	3 Pin 10A, Indian Plug, 1.5 mt wire	
	Voltage on mains	230V ± 10%	
	Frequency on mains	Follows Input	
	Voltage on Battery	230V ± 5%	
Protection	Freq on Battery	50 Hz ± 0.5%	
	Waveform	Quasi sinewave	
	Power Factor Lagging	0.6	
	Efficiency	> 87%	
	Sockets	2 x 5 pin Indian	
	Input Prot	5A CCT breaker	
	O/p Short cct	UPS output cutoff immediately	
	O/p overload shutdown	110% for 3 min 150% for 3 sec	
	Spike	420j	
	Transfer Time	4-8 ms	
Battery	DC Bus	12V	
	Internal Battery	Nil	
	External Battery	Connector & Cable for additional ext batt connection	
	Protection	Auto Discharge Protection	
	Typical Recharging Time	6 hrs (to 90% full capacity), 2.6A fast charger upto 2 hours	
Indications	Backup time on PC with 15" monitor		
	Power ON	LED steady	
Alarm	Inverter ON	LED blink	
	Battery Backup	Slow beeping sound (about 0.47 Hz)	
	Battery Low	Rapid beeping sound (about 1.8 Hz)	
Interface	Overload	Continuos beeping sound	
	10 base T Port	Optional	
Shutdown SW	RS-232	Optional	
	UPSMON	Optional	
Environment	Ambient Operation	0-40°C, 0-95% humidity non condensing, 3500 meter max.	
	Audible Noise	< 40dbA (1 meter from surface)	
	Storage Condition	15,000 meter max. elevation	
Physical	Weight	8 Kgs	10 Kgs
	Dimension - WxDxH (mm)	130 x 290 x 192	130 x 290 x 192

TROUBLESHOOTING

Use the table below to solve minor UPS installation or operation problems. If any abnormal situation occur that are not listed above, please call service people immediately.

Error/Problem	Possible cause	Remedy
No LED display on the front panel.	Battery defect.	Charge battery up to 8 hours. Replace with the same type of battery.
	Power switch is not pressed at least 5 seconds.	Press the power switch for at least 5 seconds.
Alarm buzzer beeps continuously when AC supply is normal.	Overload of the UPS.	Verify that the load matches the UPS capability specified in the specs.
When Power failure, backup time is shortened.	Overload of the UPS.	Remove some noncritical load.
	Battery voltage is too low.	Charge battery 12 hrs. or more.
Mains normal but LED is flashing.	Battery defect due to high temp. operation environment, or improper operation of battery.	Replace with the same type of battery.
	Circuit Breaker has tripped.	Reset the circuit breaker
Power cord is loose.	Power cord is loose.	Reconnect the power cord properly.



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