Su-Kam
Ek nayi soch

Colossal
INVERTER

DSP Sine Wave Technology

SALIENT FEATURES

- Pure Sine Wave Output with constant Voltage & Frequency
- Runs heavy duty appliances / equipments
- Built-in Galvanic Isolation Transformer
- Auto-self Test on LCD Panel
- Scalable Runtime
- Cold Start
- Fuzzy Logic Control battery charging

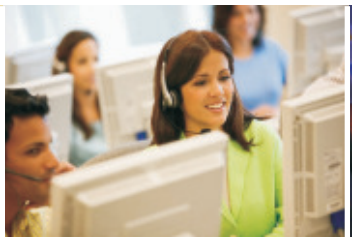
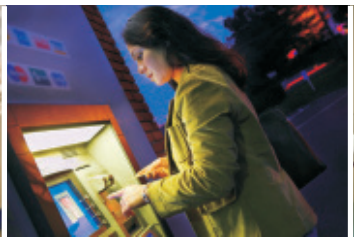
APPLICATIONS

- Lights & Fans
- Air Conditioners
- Washing Machines
- Projection & Plasma TVs
- DVD/VCD/VCR
- Hair Dryers
- Microwave Oven/OTG
- Refrigerators
- Vacuum Cleaners
- Electric Chimney
- Food Processor

TECHNICAL SPECIFICATIONS

Type	1 phase input - 1 phase output				
Series	Pure Sine Wave Inverter				
Technology	DSP based PWM technology using IGBT				
Ratings	5kVA			7.5kVA	10kVA
Model No.	CL115KS	CL115K	CL115KX	CL117.5K	CL1110K
INPUT PARAMETERS					
Input Supply	1 Phase, 3 Wire				
Voltage Range	140-280V AC				
Frequency Range	43-57 Hz				
Power Factor (charging)	0.85 to 0.95				
OUTPUT PARAMETERS					
Power Factor	0.8				
Voltage Regulation	220V ± 5%				
Frequency Regulation	50Hz ± 0.05Hz				
Peak Efficiency	>88%				
Output Waveform	Pure Sine Wave				
Total Harmonic Distortion	< 3%				
Crest Factor	> 3:1				
Overload Handling Capacity	105% for 6 mins, 160% for 5 secs				
BATTERY PARAMETERS					
Battery Type	12V/100-200Ah				
Battery Voltage(Nominal)	48V	96V	120V	180V	
Battery Charging Current	10A ± 1.0A to 15A ± 1.0A				
ENVIRONMENTAL PARAMETERS					
Operating Temperature	0-45°C				
Acoustic Noise (at 1mts)	< 50dB				
Relative Humidity	Max 95% non-condensing				
OTHERS					
Indications & Alarms	Backlit 16 x 2 Lines LCD Screen with Indications & Alarms				
Protection Class	IP20				
Dimensions-WxDxH (in mm)	350x475x580	350x550x295	350x550x625		
Weight (in kgs)	67	56	87	99	

Specifications are subject to change without prior notice.


TECHNICAL SPECIFICATIONS

Type	3 Phase in - 3 Phase out											
Series	Pure Sine Wave Inverter											
Technology	DSP based PWM Technology using IGBT											
Ratings	5kVA	7.5kVA	10kVA	15kVA	20kVA	25kVA	30kVA	40kVA	50kVA	65kVA	80kVA	100kVA
Model No.	CL335K	CL337.5K	CL3310K	CL3315K	CL3320K	CL3325K	CL3330K	CL3340K	CL3350K	CL3365K	CL3380K	CL33100K
INPUT PARAMETERS												
Input Supply	3 Phase, 4 Wire											
Voltage Range	280-465V AC (P-P)											
Frequency Range	45-55 Hz											
Power Factor (charging)												
OUTPUT PARAMETERS												
Voltage Regulation	230V ± 1%(P-N), 400V ± 1%(P-P)											
Frequency Regulation	50Hz ± 0.1Hz											
Peak Efficiency	>92%											
Output Waveform	Pure Sine Wave											
Total Harmonic Distortion	< 3% (For Linear Loads)											
Crest Factor	> 4:1											
Transient Response	Recovery to ± 5% within 1.5 cycles											
Overload Handling Capacity	110% for 8 mins, 150% for 15 secs, 200% for 4 secs, 300% for 2 secs											
BATTERY PARAMETERS												
Cell/Battery Type	12V/45-200Ah				12V/100-200Ah				2V/12V/100-1000Ah			
Battery Voltage (Nominal)	180/360V DC						360V DC					
Battery Charging Current	3A ± 0.5A to 20A ± 0.5A						10A ± 0.5A to 100A ± 2.0A					
USER INTERFACE												
Communication Port	RS-232 (Server & Client)											
Operating System	Windows 95 / 98 / NT / 2000 / XP / 2003 Server / Linux											
Remote Monitoring	Optional (Web Based Monitoring)											
ENVIRONMENTAL PARAMETERS												
Operating Temperature	0-45°C											
Acoustic Noise (at 1mts)	< 55dB				< 60dB				< 65dB			
Relative Humidity	Max 95% non-condensing											
OTHERS												
Indications & Alarm	Backlit 20 x 4 Lines LCD Screen with Indications & Alarms											
Protection Class	IP20											
Dimensions-WxHxD (in mm)	450X730X700				600x750x1000				755X810X1460		800x1000x1560	
Weight (in kgs)	100	110	145	198	208	220	240	300	375	450	550	650

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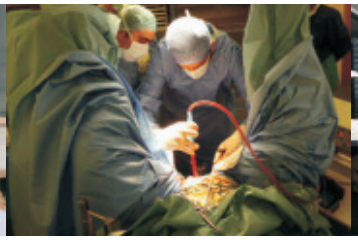

A Healthier Alternative to Generators

	Inverter	Generator
Pollution		
→ No Noise Pollution	✓	✗
→ No Emission of Thick Fumes	✓	✗
→ No Pressure of Community in Residential Areas	✓	✗
Convenience		
→ No Time Gap (Start up delay) between power cut and resumption of back-up power	✓	✗
→ No need to regularly monitor quantity of Battery Charge / Fuel	✓	✗
→ No dependence on attendents for refueling, switching on/off, buying of fuel etc.	✓	✗
Cost		
→ Low Initial Cost	✓	✗
→ Low Running Cost - since inverter draws only the required power from the battery unlike generator which always runs full load resulting high fuel cosumption	✓	✗
→ No effect of Rising Fuel Prices	✓	✗
→ No Chance of Fuel pilferage	✓	✗
Quality of Power		
→ Pure Sine Wave (100% pure power) i.e. constant output voltage and frequency- No Fluctuation	✓	✗
→ Completely safe for sensitive equipment	✓	✗
Maintenance		
→ Low Maintenance Cost since inverter has no moving parts hence are virtually maintenance free unlike generator, which requires frequent cleaning up, change in mobile oil etc.	✓	✗
Installation		
→ No Vibration	✓	✗
→ Can be installed on any floor of your facility (depending online battery bank capacity)	✓	✗
Back-up Time		
→ Option of bigger/ more batteries for longer back-up	✓	✗
→ No need to store large quantity of inflammable fuel for longer back-up	✓	✗

06/10/COLOSSAL/B01

Certifications

ISO 9001:2008 ISO 14001:2004

R&D Recognised by MINISTRY OF SCIENCE & TECHNOLOGY GOVERNMENT OF INDIA

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