

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		15kVA	
Model No.	CL115KS	CL115K	CL115KX	CL117.5K	CL1110K	CL1110KX	CL1115K
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 \pm 5%						
Frequency Regulation	50Hz \pm 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	120V	180V	240V	240V
Battery Charging Current	10A \pm 1.0A to 15A \pm 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	350x550x295	350x550x625	350x550x625	350x600x610	380x625x625
Weight (in kgs)	67	56	56	87	99	99	140

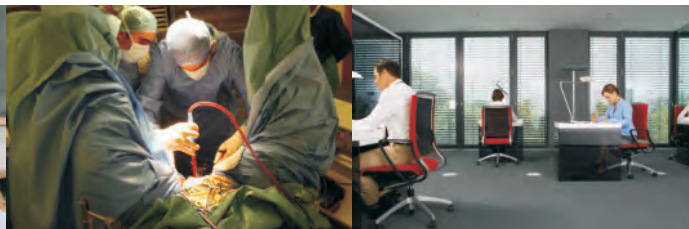
Specifications are subject to change without prior notice.



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 attendants 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 consumption -----	✓	✗
→ 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 on line 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 -----	✓	✗

Certifications
 ISO 9001:2008
 ISO 14001:2004
 R&D Recognised by
 MINISTRY OF SCIENCE & TECHNOLOGY
 GOVERNMENT OF INDIA



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