

Sinus LCD Series

On-Line "Double Conversion" Technology
 1 phase in-1 phase out
 1kVA to 3kVA (Tower & Rack Convertible)

- ▶ On-line 'double conversion' technology
- ▶ Real Digital Signal Processor (DSP) Controller
- ▶ Power factor correction PFC (>0,99)
- ▶ User friendly LCD display
- ▶ Programmable Receptacles
- ▶ Wide input voltage range and frequency
- ▶ Availability to configure as 50/60Hz Frequency Converter from LCD Panel
- ▶ Smart communication port and SNMP management capability
- ▶ Hot Swappable Battery
- ▶ Emergency shutdown control through EPO
- ▶ Overload & short circuit protection
- ▶ Cold start (DC power on)
- ▶ Genius battery management (GBM)
- ▶ RS232, USB and SNMP can be activated simultaneously
- ▶ Compact size, light weight & low noise



Sinus LCD Series Technical Specifications

| MODEL | SS LCD 210 | | SS LCD 220 | | SS LCD 230 | |
|------------------------------|--|--|------------------------------|--|-----------------------------|--|
| Power(rVA) | 1 | | 2 | | 3 | |
| INPUT | | | | | | |
| Voltage | 160VAC - 288VAC | | | | | |
| Frequency | 50/60 Hz ± 5% (Auto Sensing) | | | | | |
| Power Factor | >99% | | | | | |
| OUTPUT | | | | | | |
| Power Factor | 0,8 | | | | | |
| Voltage | 220VAC / 230 / 240VAC | | | | | |
| Voltage Regulation | ±1% | | | | | |
| Frequency | 50/60 Hz | | | | | |
| Frequency Regulation | ± 0,1% | | | | | |
| Harmonic Distortion | <3% | | | | | |
| Crest Factor | 3:1 | | | | | |
| Output Waveform | Sinusoidal | | | | | |
| Overload Capacity | 100%-120% for 30 seconds | | | | | |
| | 120%-150% for 10seconds | | | | | |
| Whole efficiency | >85% | | | | >88% | |
| Transfer Time | 0ms | | | | | |
| Outlets | 6 pcs IEC C13 or 2pc Schuko | | 6 pcs IEC C13 or 2pcs Schuko | | 4pcs IEC C13 or 2pcs Schuko | |
| BATTERY | | | | | | |
| Type | Maintenance-free lead acid batteries | | | | | |
| Recharge Time | 3 hours (to 90% of full capacity) | | | | | |
| Voltage | 36VDC | | 72VDC | | | |
| Internal Battery | 3pcs 12V 7Ah | | 6pcs 12V 7Ah | | 6pcs 12V 9Ah | |
| Back Up Time | Full Load | | 5 min | | 4 min | |
| | Half Load | | 12 min | | 10 min | |
| Cold Start | YES | | | | | |
| DISPLAY | | | | | | |
| LED Display | Utility or Bypass, Battery Low, Battery Abnormal, Overload, Site Wiring Fault, Service Mode, UPS Off, UPS Abnormal | | | | | |
| LCD Display | Input /Output Voltage and Frequency Values, Load%, Battery Voltage, Internal Temperature | | | | | |
| ALARMS | | | | | | |
| | Line Failure, Battery Low, Over Load, Failure Events | | | | | |
| PROTECTIONS | | | | | | |
| | Short circuit, over temperature, overload, high voltage, battery low, EPO | | | | | |
| COMMUNICATION | | | | | | |
| Interface | RS232 and USB | | | | | |
| ENVIRONMENT | | | | | | |
| Temperature | 0°C - 40°C | | | | | |
| Humidity | 0% - 95% (without condensation) | | | | | |
| Noise Level(1m distance) | <50dBA (at 1 meter) | | | | | |
| Protection Class | IP 20 | | | | | |
| PHYSICAL | | | | | | |
| Net Weight (kg) | 16 | | 29,5 | | 30 | |
| Dimensions (mm) WxDxH (Rack) | 440x450x88 | | 440x650x88 | | 440x650x88 | |
| STANDARDS | | | | | | |
| | EN 62040-1-1 (safety), EN 62040-2(EMC) | | | | | |
| ACCESSORIES | | | | | | |
| | Internal&External SNMP, Dry Contact Board, External Manual Bypass, Rail Kit, Software | | | | | |