

Sinus LCD

1 Phase In - 1 Phase Out / 1kVA – 3kVA

- 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



TECHNICAL SPECIFICATIONS

MODEL	SS LCD 210		SS LCD 220		SS LCD 230	
Power(kVA)	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						