













## 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 (PF: >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
NPUT			
/oltage	160VAC - 288VAC		
requency	50/60 Hz ± 5% (Auto-sensing)		
Power Factor		>0.99	
DUTPUT			
Power Factor	0.8		
/oltage	220VAC / 230 / 240VAC		
/oltage Regulation	±1%		
requency	50/60 Hz		
requency Regulation	± 0.1%		
Output Voltage Harmonic (THDv)	<3%		
Crest Factor	3:1		
Output Waveform	Sinusoidal		
Overload Capacity	100%-120% for 30 seconds 120%-150% for 10seconds		
Vhole efficiency	>85% >88%		
Fransfer Time		0ms	
Dutlets	6 pcs IEC C13 or 2pc German Std. Socket	6 pcs IEC C13 or 2pcs German Std. Socket	4pcs IEC C13 or 2pcs German Std. Socket
BATTERY			
ype	Maintenance-free lead acid batteries		
Recharge Time	3 hours (to 90% of full capacity)		
/oltage	36VDC		2VDC
nternal Battery	3pcs 12V 7Ah	6pcs 12V 7Ah	6pcs 12V 9Ah
Back Up Time Full Load	5 min 4 min 12 min 10 min		
Half Load		Z min YES	10 min
Cold Start DISPLAY		1E5	
	ility on Dynaso Dottony Lovy Botto	my Abrahamal Overland Cita Wining Foul	t Camina Mada LIDC Off LIDC Abnor
_ED Display Ot	Utility or Bypass, Battery Low, Battery Abnormal, Overload, Site Wiring Fault, Service Mode, UPS Off, UPS Abnor Input /Output Voltage and Frequency Values, Load%, Battery Voltage, Internal Temperature		
ALARMS	iliput /Output voltage a	nd Frequency values, Load %, Battery vo	ittage, internat remperature
ALARMS	Line	Failure, Battery Low, Over Load, Failure	e Events
PROTECTIONS		ver Temperature, Overload, High Voltage	
COMMUNICATION	Short Circuit, O	ver Temperature, Overtoad, High Vottage	e, battery Low, EFO
nterface		RS232 and USB	
ENVIRONMENT			
[emperature		0°C - 40°C	
Humidity	0 - 95% (non-condensing)		
Voise Level(1m distance)	<50dBA (at 1 meter)		
Protection Class	IP 20		
PHYSICAL			
Net Weight (kg)	16	29.5	30
Dimensions (mm) WxDxH (Rack)	440x450x88 (2U)	440x650x88 (2U)	440x650x88 (2U)
TANDARDS			
		EN 62040-1-1 (safety), EN 62040-2(EM	IC)
ACCESSORIES			