

Sinus Series

On – Line “Double Conversion” Technology

1 phase in-1 phase out

1kVA to 3kVA

- ▶ Microprocessor Controlled Online Double Conversion Technology
- ▶ Pure sinewave output less than 3% THD
- ▶ Wide input voltage range $\pm 27\%$ of nominal
- ▶ Smart RS-232 communication port
- ▶ Internal SNMP Slot Card Option
- ▶ Management software compatible
- ▶ Input Power Factor Correction PFC (>0.98)
- ▶ Overload & short circuit protection
- ▶ Cold start (DC power on)
- ▶ Genius battery management (GBM)
- ▶ Compact size, light weight & low noise
- ▶ Rack version available



Sinus Series Technical Specifications

MODEL	SS 210		SS 220	SS 230
Capacity (kVA)	1		2	3
INPUT				
Voltage	160VAC - 280VAC			
Frequency	50/60 Hz ±5%			
Power Factor	>98%			
OUTPUT				
Output Power Factor	0.7			
Voltage	220VAC / 230 / 240VAC			
Voltage Regulation	±%2			
Frequency	50/60 Hz (Auto detection)			
Frequency Regulation	± 0.5%			
Harmonic Distortion	<3% (for linear loads)			
Crest Factor	3:1			
Output Waveform	Sinusoidal			
Overload Capacity	100%-120% for 60 seconds, 120%-150% for10seconds			
Whole efficiency	up to 88%			
Inverter efficiency	±>90%			
Transfer Time	0ms			
Outlets	3pcs IEC C13 & 1pc Schuko Outlets	3pcs IEC C13 & 2pcs Schuko Outlets	6pcs IEC C13 & 2pcs Schuko Outlets	
BATTERY				
Type	Maintenance-free lead acid batteries			
Recharge Time	8 hours(to 90% of full capacity)			
Voltage	36VDC	72VDC	96VDC	
Internal Battery	3 pcs 12V 7Ah	6 pcs 12V 7Ah	8 pcs 12V 7Ah	
Back Up Time	Full Load	6 min	5 min	
	Half Load	15 min	12 min	
DISPLAY				
LED Display	Utility, Inverter, Bypass Mode, Fault, Overload, Battery Low, Self-test, Load/Battery Level			
ALARMS				
	Line Failure, Battery Low, Transfer to Bypass, Failure Events			
PROTECTION				
	short circuit, over temperature, overload, high voltage, battery low			
COMMUNICATION				
Interface (Communication Ports)	RS-232 Standard			
Monitoring and Management Software	Standard			
ENVIRONMENT				
Temperature	0°C - 40°C			
Humidity	0% - 95%			
Noise Level (1m Distance)	<45dBA			
Protection Class	IP20			
PHYSICAL SPECIFICATIONS				
Tower Type				
Net Weight (kg)	15	29	35	
Dimensions (mm) WxDxH	147x401x223	130x475x360	190x450x360	
19" Rack Mount Type				
Net Weight (kg)	16	28	37	
Dimensions (mm) WxDxH	483x390x88	483x485x130	483x460x192	
STANDARDS				
Standards	EN 62040-1-1 (safety), EN 62040-2(EMC)			
ACCESORIES				
Optional	Internal&External SNMP, Dry Contact Board, USB Board, Internal Additional Charger for External Batteries, External Manual Bypass Panel			