

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 $\pm 5\%$		
Power Factor	0,98%		
OUTPUT			
Output Power Factor	0,7		
Voltage	220VAC / 230 / 240VAC		
Voltage Regulation	$\pm 2\%$		
Frequency	50/60 Hz (Auto detection)		
Frequency Regulation	$\pm 0,5\%$		
Harmonic Distortion	$<3\%$ (for linear loads)		
Crest Factor	3:1		
Output Waveform	Sinusoidal		
Overload Capacity	100%-120% for 60 seconds, 120%-150% for 10seconds		
Whole efficiency	up to 88%		
Inverter efficiency	$>90\%$		
Transfer Time	0ms		
Outlets	2pcs IEC C13 & 1pc Schuko Outlets	3pcs IEC C13 & 1pc Schuko Outlets	3pcs IEC C13 & 1pc 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	6 min		5 min
	Half Load		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% non-condensing		
Noise Level (1m Distance)	<45 dB(A)		
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)		
ACCESSORIES			
Optional	Internal&External SNMP, Dry Contact Board, USB Board, Internal Additional Charger for External Batteries, External Manual Bypass Panel		