

MPOWER UPS



SINUS PREMIUM LCD SERIES

t. 01420 82031
e. sales@mpowerups.co.uk
w. www.mpowerups.co.uk

10 years of uninterruptible power

SINUS PREMIUM LCD SERIES

On - Line Double Conversion Technology. 1 phase in - 1 phase out. 1kVA to 3kVA

- Online double conversion technology
- Input power factor correction PFC (>0,99)
- High output power factor (PF : 0.9)
- Pure sinewave output less than 3% THD
- Wide input voltage and frequency range
- Smart RS-232 communication port
- Internal SNMP Slot Card Option
- Management software compatible
- Overload & short circuit protection
- Cold start (DC power on)
- Smart battery management
- Compact size, light weight & low noise

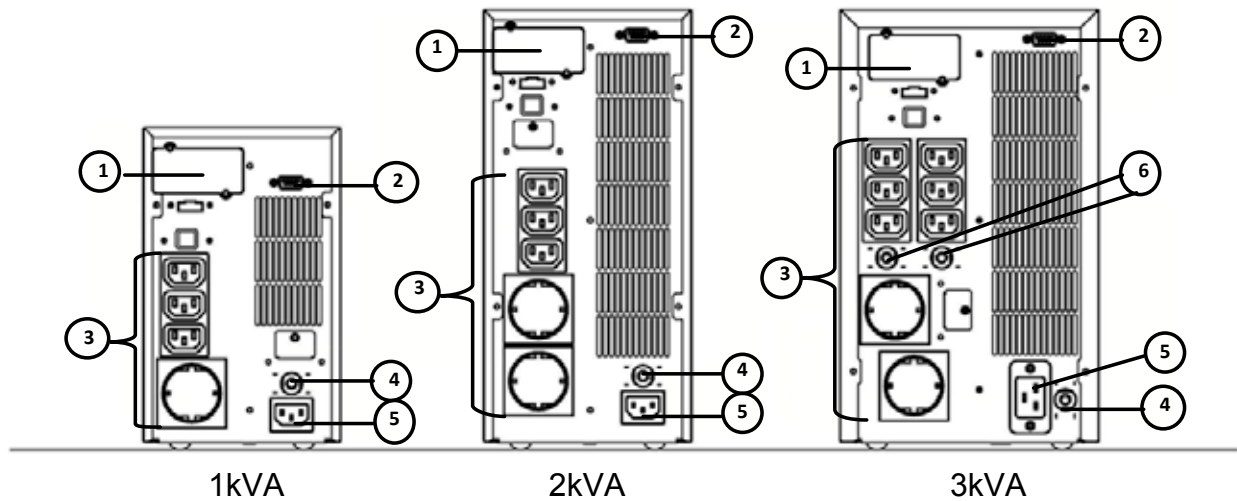


General

True on-line technology continuously supplies your critical device with stable, regulated, transient-free, pure-sine-wave AC power.

The user-friendly plug and play design means easy installation and the built in, maintenance free batteries minimise the need for after sales service or costs.

SINUS PREMIUM LCD SERIES



Rear Panel

1. Smart Slot for Internal SNMP, USB Board, Dry Contact Board
2. RS232 Communication Port
3. AC Outlets
4. Input Circuit Breaker
5. Input Power Connection Socket
6. Output Circuit Breaker

Specification

MODEL	SPS LCD 210		SPS LCD 220		SPS LCD 230	
Power(kVA)	1		2		3	
INPUT						
Voltage Range	160VAC ~ 300VAC (@ 0% to 78% Load) 185VAC ~ 260VAC (@ 78% to 89% Load) 210VAC ~ 240VAC (@ 89% to 100% Load)					
Frequency	45Hz ~ 65Hz					
Power Factor	≥0.99 (at full linear load)					
OUTPUT						
Output Power Factor	0.9					
Voltage	220V / 230V / 240VAC					
Voltage Regulation	<±1% (until low battery warning signal)					
Frequency (Synchronized range)	3Hz or 1Hz (selectable)					
Frequency (Battery Mode)	50 / 60Hz ± 0.1%					
Harmonic Distortion	<3% (at full linear load), <6% (@ full non-linear load)					
Crest Factor	3:1					
Output Waveform	Sinusoidal					
Overload Capacity	100%-105% : Continuous					
	106%-120% for 30 seconds					
	121%-150% for 10 seconds					
	>150% : Transfer to Bypass					
Line Mode efficiency	±>86%		±>87%		±>88%	
Battery Mode efficiency	±>85%		±>86%		±>87%	
Transfer Time (AC to DC)	0ms					
Outlets	3pcs IEC C13 & 1pc Schuko		3pcs IEC C13 & 2pcs Schuko		6pcs IEC C13 & 2pcs Schuko	
BATTERY						
Type	Maintenance-free lead acid batteries					
Recharge time	5 hours (to 80% of full capacity)					
Voltage	24VDC		48VDC		72VDC	
Internal Battery	2pcs 12V 7Ah		4pcs 12V 7Ah		6pcs 12V 9Ah	
Cold Start	Yes					
DISPLAY						
LCD Display	Input/Output/Bypass Voltage, Input/Output/Bypass Frequency, Load %, Battery Voltage, Internal Temperature					
ALARMS						
	Battery Mode, Battery Low, Overload, Failure Events					
PROTECTION						
Short Circuit	Bypass Mode: Fuse, Normal Mode: Output Breaker / Electronic Circuit, Battery Mode: Output Breaker / Electronic Circuit					
Battery	Battery Discharge Management					
EPO	UPS shuts down immediately					
Over Temperature	Normal Mode: Transfers to Bypass Mode, Battery Mode: UPS shuts down immediately					
COMMUNICATION						
Interface(Communication Ports)	RS-232 Standard, Optional USB					
Monitoring and Management Software	Standard					
Options	Dry Contact Board, USB Board, SNMP Card					
ENVIRONMENT						
Temperature	0°C - 40°C					
Humidity	0% - 90% (without condensation)					
Noise Level (1m Distance)	<50dBA					
Protection Class	IP20					
PHYSICAL SPECIFICATIONS						
Net Weight (kg)	12		22		27	
Dimensions(mm) WxDxH	144 x 360 x 220		152 x 438 x 322		190 x 438 x 322	
STANDARDS						
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC)					
ACCESSORIES						
Optional	Internal & External SNMP, Dry Contact Board, Additional Charging Board					