

MPOWER UPS



SINUS PREMIUM LCD SERIES

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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

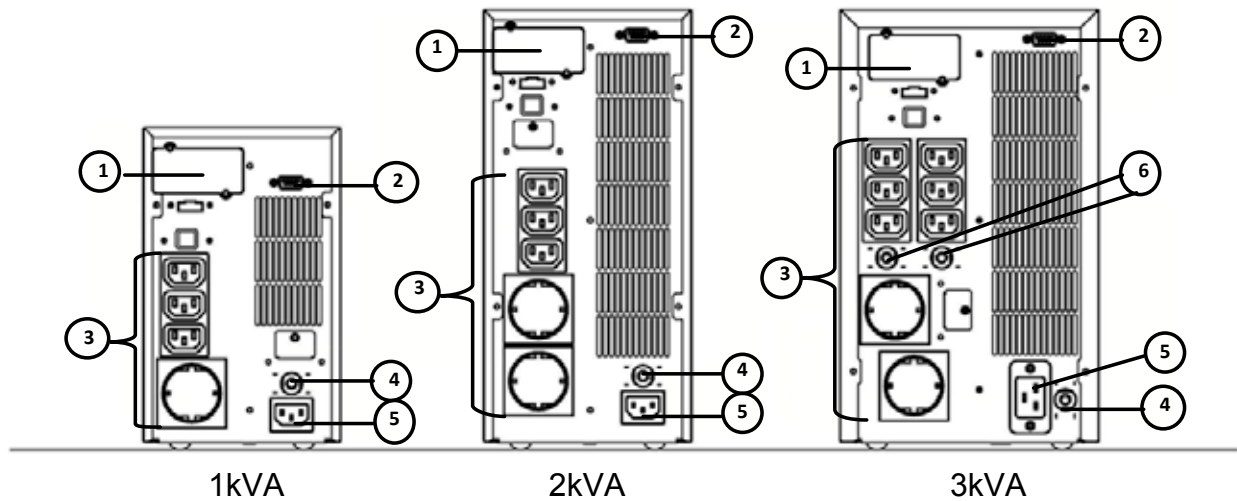


General

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.

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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 | | | | | |

