

SENTINEL 6 700-3000VA

Uninterruptible Power Supply

Absolute protection

Sentinel 6 is a range of UPSs with ON-LINE double conversion technology and with 'zero' transfer time. The load is always powered by the inverter, which supplies true sinusoidal voltage that is free from electrical interference.

High immunity against Electromagnetic Disturbances

The unit will have high immunity against the electromagnetic disturbances coming from intended Radio frequency emitters according to the standard IEC 61000-4-2 (Level 4) IEC 61000-4-2 (Level 3) IEC 61000-4-4 (Level 4), IEC 61000-4-5 (Level 4). Total microprocessor control Digital control of the appliance considerably improves system reliability, reduces unit dimensions and weight, and significantly increases control and communications capabilities.

Battery optimization

The UPS periodically performs a battery efficiency test. The batteries are not activated during micro interruptions (40 ms), which are the most common type of mains interference, since the required power is drawn from the capacitors banks. This system (battery saving) extends the life of the batteries. The Sentinel 6 range will also include the deep battery discharge feature to protect the battery.

Advanced communication

The Aros Watch&Save 3000 software

ensures effective and intuitive management of the UPS. Important information such as the input and output voltage, the load applied, the remaining back-up time, etc., is displayed in the form of bar graphs. The software is able to provide information even in the event of a failure, and can also programme the UPS for automatic weekly start-up and shutdown.

Communication slot

Sentinel 6 comes with an expansion slot for optional communication boards which make Sentinel 6 compatible with the main communication options: Netman 102 Plus, MultiCom 302, RS232+RS485 ports, Multi Com 352.

Automatic restart

The UPS is programmed to restart automatically when the mains power supply returns after switching off due to the end of back-up time following a prolonged power failure.

Extending the back-up time

Battery expansion is envisaged to increase the back-up time of the UPS. For longer back-up time it is available Sentinel 6 POWER without internal batteries but with powerful battery recharger.

Reduced noise

Through the use of high frequency components and fan speed control, the noise level of the UPS is under 45 dBA.



Stand-by

When stand-by mode is selected, the inverter is switched off and the battery charges. This is useful when the unit is not in use.

Protection of the telephone line

Sentinel 6 comes with an RJ45/RJ11 Net/Tel socket to guarantee the protection of its telephone or network line against any overvoltages.

Applications

Small/medium computer networks, Local Area Networks (LAN), Workstation, Servers, EPOS (Electronic Point of Sale) systems.

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Uninterruptible Power Supply

| INPUT | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
|---|--|---------|---------------|-----------------------------------|
| Voltage | 220 - 230 - 240 V | | | |
| Voltage range without battery contribution | 170 V | | | |
| Input frequency | 50/60 Hz | | | |
| Accepted frequency | ±10% | | | |
| Power factor | > 0.97 | | | |
| Input phases | 1 | | | |
| BY PASS | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| Voltage tolerance | 180 - 264 V | | | |
| Frequency tolerance | ±5% | | | |
| BATTERIES | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| Type | Maintenance free sealed lead acid | | | Maintenance free sealed lead acid |
| Battery blocks | 12V/7Ah | | | 12V/7Ah |
| Batteries number | 2 | 3 | 0 | 4 |
| OUTPUT | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| Rated power | 700 VA | 1000 VA | | 1500 VA |
| Active power | 490 W | 700 W | | 1050 W |
| Phases number | 1 | | | |
| Waveform | Sinusoidal | | | |
| Rated voltage | 220-230-240 V | | | |
| Voltage distortion with distorting load | <5% | | | |
| Voltage distortion with linear load | <3% | | | |
| Frequency | 50 or 60 Hz (autosense) | | | |
| Frequency tolerance | ±0,2% | | | |
| Dynamic stability | <5% in 20 ms | | | |
| Static stability | 1,5% | | | |
| Crest factor (I _{peak} /I _{rms}) | 3 : 1 | | | |
| Output phases | 1 | | | |
| Output sockets | No. 4 IEC 320 (10A) | | | |
| SYSTEM | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| Transfer time | 0 ms | | | |
| AC/AC efficiency | 86% | | 88% | |
| Noise | < 45 dBA at 1 mt | | | |
| Operating temperature | 0°C / +40°C, optimal for batteries +15°C/+25°C | | | |
| Protections | Overcurrent - short-circuit - overvoltage - undervoltage - overtemperature | | | |
| Communication slot | RS232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS) | | | |
| Colour | Dark grey | | | |
| Battery charger | 1 A | | 4 A | 1 A |
| Standards | Safety: EN 62040-1-1 and directive 2006/95/EC; EMC: EN 62040-2 and directive 2004/108/EC | | | |
| Technology | On-line double conversion | | | |
| Weight (kg) | 12 Kg | 14 Kg | 8 Kg | 19 Kg |
| Dimensions (WxDxH) mm | 158x400x231 mm | | | 158x500x231 mm |

SENTINEL 6 700-3000VA

| OVERLOAD | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
|---|---------------|---------|---------------|---------|
| 100% < Load < 110% | | | | 30' |
| 100% = Load < 150% | | | | 30' |
| Load = 150% | | | | 10' |
| DATA | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| Back up time at full load (min) | 6 Min. | | 0 Min. | 6 Min. |
| Installation | Tower | | | |
| Configuration | Single Unit | | | |
| OPTIONS | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| Battery cabinets for longer runtimes | Not available | Yes | | |
| Communication software 'professional' version | Yes | | | |
| OPTIONS | S6 700 | S6 1000 | S6 1000 POWER | S6 1500 |
| MultiCom 351 | X | X | X | X |
| MultiCom 352 | X | X | X | X |
| MultiCom 301 | X | X | X | X |
| MultiCom 302 | X | X | X | X |
| NetMan 101 Plus | X | X | X | X |
| NetMan 102 Plus | X | X | X | X |
| USB converter | X | X | X | X |
| Multi I/O | X | X | X | X |
| IRMS Multi-Switch | X | X | X | X |
| AS/400 interface kit | X | X | X | X |
| External by-pass cabinet rack 16A | X | X | X | X |
| Multifunction I/O | X | X | X | X |
| MultiCom 401 | X | X | X | X |

SENTINEL 6 700-3000VA

| INPUT | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
|---|--|---------------|---|---------------|
| Voltage | 220 - 230 - 240 V | | | |
| Voltage range without battery contribution | 170 V | | | |
| Input frequency | 50/60 Hz | | | |
| Accepted frequency | ±10% | | | |
| Power factor | > 0.97 | | | |
| Input phases | 1 | | | |
| BY PASS | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| Voltage tolerance | 180 - 264 V | | | |
| Frequency tolerance | ±5% | | | |
| BATTERIES | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| Type | Maintenance free sealed lead acid | | Maintenance free sealed lead acid | |
| Battery blocks | 12V/7Ah | | 12V/7Ah | |
| Batteries number | 8 | 0 | 8 | 0 |
| OUTPUT | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| Rated power | 2000 VA | | 3000 VA | |
| Active power | 1400 W | | 2100 W | |
| Phases number | 1 | | | |
| Waveform | Sinusoidal | | | |
| Rated voltage | 220-230-240 V | | | |
| Voltage distortion with distorting load | <5% | | | |
| Voltage distortion with linear load | <3% | | | |
| Frequency | 50 or 60 Hz (autosense) | | | |
| Frequency tolerance | ±0,2% | | | |
| Dynamic stability | <5% in 20 ms | | | |
| Static stability | 1,5% | | | |
| Crest factor (I _{peak} /I _{rms}) | 3 : 1 | | | |
| Output phases | 1 | | | |
| Output sockets | No. 6 IEC 320 (10A) | | No. 6 IEC 320 (10A) no. 1 IEC 320 (16A) | |
| SYSTEM | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| Transfer time | 0 ms | | | |
| AC/AC efficiency | 88% | | | |
| Noise | < 45 dBA at 1 mt | | | |
| Operating temperature | 0°C / +40°C, optimal for batteries +15°C/+25°C | | | |
| Protections | Overcurrent - short-circuit - overvoltage - undervoltage - overtemperature | | | |
| Communication slot | RS232 + Communication slot (TCP/IP, HTTP, SNMP, JBUS, MODBUS, PROFIBUS) | | | |
| Colour | Dark grey | | | |
| Battery charger | 1 A | 8 A | 1 A | 8 A |
| Standards | Safety: EN 62040-1-1 and directive 2006/95/EC; EMC: EN 62040-2 and directive 2004/108/EC | | | |
| Technology | On-line double conversion | | | |
| Weight (kg) | 34 Kg | 14 Kg | 35 Kg | 14 Kg |
| Dimensions (WxDxH) mm | 192x460x340 mm | | | |

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| OVERLOAD | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
|---|-------------|---------------|---------|---------------|
| 100% < Load < 110% | | | 30' | |
| 100% = Load < 150% | | | 30' | |
| Load = 150% | | | 10' | |
| DATA | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| Back up time at full load (min) | 10 Min. | 0 Min. | 6 Min. | 0 Min. |
| Installation | Tower | | | |
| Configuration | Single Unit | | | |
| OPTIONS | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| Battery cabinets for longer runtimes | | | Yes | |
| Communication software 'professional' version | | | Yes | |
| OPTIONS | S6 2000 | S6 2000 POWER | S6 3000 | S6 3000 POWER |
| MultiCom 351 | X | X | X | X |
| MultiCom 352 | X | X | X | X |
| MultiCom 301 | X | X | X | X |
| MultiCom 302 | X | X | X | X |
| NetMan 101 Plus | X | X | X | X |
| NetMan 102 Plus | X | X | X | X |
| USB converter | X | X | X | X |
| Multi I/O | X | X | X | X |
| IRMS Multi-Switch | X | X | X | X |
| AS/400 interface kit | X | X | X | X |
| External by-pass cabinet rack 16A | X | X | X | X |
| Multifunction I/O | X | X | X | X |
| MultiCom 401 | X | X | X | X |