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make a difference.™



Origin1500 1.5kW Solar Panel System Inverter Specifications

Your Origin1500 system will be supplied with the following inverter:

- Clenergy SPH15

Please note the inverter supplied with your solar panel system is AS4777 accredited.

Please see the following specification sheet for further details and inverter specifications.

SolarPowerHouse Grid Connected Inverters



Performance

- 94%-96% Efficiency
- Wide Input Range
- Dual Processor
- Dual Stage Input Protection

Connectivity

- RS232 and USB
- Field upgradeable
- Lan and wireless

Reliability

- CEC Approved
- 5 years warranty
- IP65 for external mounting

Options

- 10 Year Extended Warranty
- SNMP & RS485
- Zigbee interface
- Panorama Display

The Cleenergy SolarPowerHouse range of grid connected inverters provide the latest technology in a smart package. They are highly reliable and light weight. SolarPowerHouse inverters have a wide input range with a high efficiency. They are designed to be simple to install and maintenance free.

| PV Input | SPH15 | SPH20 | SPH30 | SPH40 | SPH50 | SPH60 |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal DC Voltage | 360 VDC | 360 VDC | 360 VDC | 360 VDC | 360 VDC | 360 VDC |
| MPPT range | 150 to 500VDC | 150 to 500 VDC | 150 to 500 VDC | 150 to 500 VDC | 150 to 600 VDC | 150 to 600 VDC |
| Working range | 100 to 500 VDC | 100 to 500 VDC | 100 to 500 VDC | 100 to 500 VDC | 100 to 600 VDC | 100 to 600 VDC |
| Max PVO circuit voltage | 550V DC | 550V DC | 550V DC | 550V DC | 600V DC | 600V DC |
| Max. input current at 360DC | 7.5A DC | 10A DC | 15A DC | 20A DC | 25A DC | 30A DC |
| Max. input current | 8.77A DC | 11.57A DC | 17.36A DC | 20A DC | 25A DC | 30A DC |
| Max. input power. | 1755W | 2315W | 3470W | 4580W | 5205W | 6250W |
| Grid Output | | | | | | |
| Nominal output power | 1500W | 2000W | 3000W | 4000W | 5000W | 6000W |
| Maximum output power | 1650W | 2200W | 3300W | 4400W | 5000W | 6000W |
| Operational voltage | 190VAC to 270VAC | 190VAC to 270VAC | 190VAC to 270VAC | 190VAC to 270VAC | 190VAC to 270VAC | 190VAC to 270VAC |
| Operational frequency | 47-53 Hz | 47-53 Hz | 47-53 Hz | 47-53 Hz | 47-53 Hz | 47-53 Hz |
| Current distortion | < 3% | < 3% | < 3% | < 3% | < 3% | < 3% |
| Power factor | >0.99 | >0.99 | >0.99 | >0.99 | >0.99 | >0.99 |
| Max. efficiency | >94% | >95% | >95% | >96% | >96% | >96% |
| Max. efficiency (Euro) | >93% | >94% | >94% | >95% | >95% | >95% |
| Environment | | | | | | |
| Protection degree | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Operation temperature | -25 to 55° C | -25 to 55° C | -25 to 55° C | -25 to 55° C | -25 to 55° C | -25 to 55° C |
| Humidity (0 to 95%) | non-condensing | non-condensing | non-condensing | non-condensing | non-condensing | non-condensing |
| Heat dissipation | Convection | Convection | Convection | Convection | Fan Assisted | Fan Assisted |
| Acoustic noise level | <40dB, A- weighted | <40dB, A- weighted | <40dB, A- weighted | <40dB, A- weighted | <40dB, A- weighted | <40dB, A- weighted |
| Communication | | | | | | |
| Comm. Interface | RS232 & USB | RS232 & USB | RS232 & USB | RS232 & USB | RS232 & USB | RS232 & USB |
| Optional | SNMP & RS485 | SNMP & RS485 | SNMP & RS485 | SNMP & RS485 | SNMP & RS485 | SNMP & RS485 |
| FW upgrade | Yes, via RS232 | Yes, via RS232 | Yes, via RS232 | Yes, via RS232 | Yes, via RS232 | Yes, via RS232 |
| Technology | | | | | | |
| Transformeless | Yes | Yes | Yes | Yes | Yes | Yes |
| Waveform | Sine PWM | Sine PWM | Sine PWM | Sine PWM | Sine PWM | Sine PWM |
| Mechanical | | | | | | |
| HxWxD (mm) | 362x312x131 | 362x312x131 | 362x312x141 | 384x464x131 | 515x464x142 | 515x464x142 |
| Weight (kg) | 14 | 14 | 14 | 21 | 27 | 27 |

Lab:



Certificate:

AS3100
AS4777

