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## **Origin1600 1.6kW Solar System Inverter Specifications**

Your Origin1600 system will be supplied with the following inverter:

- Clenergy

Please note the inverter supplied with your solar 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
<b>Grid Output</b>						
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%
<b>Environment</b>						
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
<b>Communication</b>						
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
<b>Technology</b>						
Transformeless	Yes	Yes	Yes	Yes	Yes	Yes
Waveform	Sine PWM	Sine PWM	Sine PWM	Sine PWM	Sine PWM	Sine PWM
<b>Mechanical</b>						
HxWxD (mm)	362x312x131	362x312x131	362x312x141	384x464x131	515x464x142	515x464x142
Weight (kg)	14	14	14	21	27	27

Lab:



Certificate:

AS3100  
AS4777

