



Sharp1500 1.5kW Solar System Inverter Specifications

Your Sharp1500 system will be supplied with one of the following inverters:

- Clenergy
- Sharp

Please note the inverter supplied with your solar system is a minimum 1.5kW and is AS4777 accredited.

The choice of inverter will be at the **sole discretion** of our installer subject to such matters as stock availability.

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

SolarPowerHouse Grid Connected Inverters



SPH15
SPH20
SPH30

SPH40
SPH50
SPH60

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.

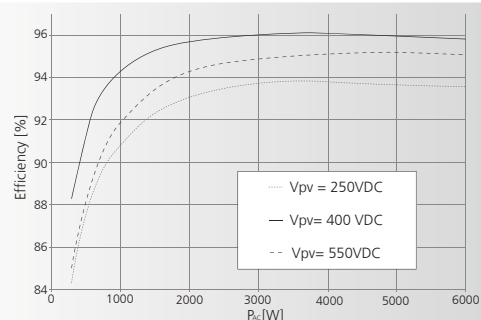
PV Input	SPH15	SPH20	SPH30	SPH40	SPH50	SPH60
Nominal DC Voltage	360 VDC	360 VDC	360 VDC	360 VDC	360 VDC	360 VDC
MPPT range	150 to 500VDC	150 to 500 VDC	150 to 500 VDC	150 to 500 VDC	150 to 600 VDC	150 to 600 VDC
Working range	100 to 500 VDC	100 to 500 VDC	100 to 500 VDC	100 to 500 VDC	100 to 600 VDC	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



1.6 kW Solar Inverter

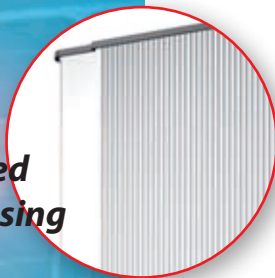


JH-1600E **DESIGNED FOR** **HIGH RELIABILITY**

MAIN FEATURES:

- 1600W AC
- High efficiency: Peak 95%
- Wide DC voltage range: 60VDC to 350Vdc
- MPPT: 60vdc to 320vdc
- Remote Monitoring
- Easy to see large LED display
- High reliability aluminum body with IP65 sealed circuit.
- AS4777 compliant inverter
- Aesthetics: Cool silver aluminum body
- Easy to install: Wall mount bracket and screws are included
- 5 Year Warranty

**Custom Designed
Aluminium Housing**



Large LED Display



JH-1600E – 1.6kW SOLAR INVERTER

SPECIFICATIONS

Maximum output power	1600 W
Maximum conversion efficiency	95%
Nominal output voltage	230 VAC
Nominal output frequency	50 Hz
Nominal continuous output current	7A
Maximum continuous output current	7.6A
Output over-current protection	10A
Total Current Harmonic Distortion	<5%
Power Factor	>0.99
Utility monitoring – islanding protection	As per AS4777
Operating temperature range	-20° ~ 60° (De-rating at 40 ~ 60°)
Storage temperature range	-20° ~ 60°
Audible noise	<29dB-A (1m forward front panel)
Outdoor enclosure	Main body IP65 Wiring box IP55
Dimensions - without wall mount (H x W x D / mm)	440 x 348 x 141 mm
Dimensions - with wall mount (H x W x D / mm)	440 x 348 x 153 mm
Inverter weight	12 kg

In the absence of confirmation by device specifications sheets, Sharp takes no responsibility for any defects that may occur in equipment using any Sharp devices shown in catalogues, data books, etc. Contact Sharp in order to obtain the latest device specification sheets before using any Sharp device.

SHARP

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