

3500W Inverter

RELIABILITY. FLEXIBILITY. EFFICIENCY.

SHARP'S UNIQUE SUNVISTA™ MULTI-STRING POWER CONDITIONER IS THE HEART OF THE PV SYSTEM

More than just an inverter, the JH-3500U is a versatile power conditioner engineered to blend energy from up to three input strings, each varying by number, model, and angle of modules. Now architects and installers can design systems that meet exact power requirements while creating a clean, professional look on the roof. Plus, with its active cooling and ultra-high efficiency, Sharp's inverter maintains stable power output even in extreme temperatures. Perfectly matched to Sharp modules and mounting hardware, the JH-3500U is also compatible with many other manufacturers' systems, and is ideal for both residential and commercial applications. With over 60,000 units in the field, the Sharp Sunvista has proven to be among the most dependable and flexible inverters in the world.



FEATURES

- High-frequency isolation transformer for light weight and easy installation
- High output power: 3.5kW
- NEMA 3R housing for outdoor installation
- Active cooling system for stable power output
- Multi-string layout of PV modules
- Surface mount LCD display for indoor installation
- UL 1741 Listed
- IEEE 929 Compliant
- Manufactured in ISO 9002 certified facilities
- 5-year limited warranty



The Sharp solar power LCD display monitor blends beautifully with the homeowner's decor and displays instantaneous and cumulative electricity generation and CO₂ reduction levels.



Sharp's 3.5kW inverter is designed with a neutral-toned NEMA 3R housing that integrates into the look of almost any style home.

ELECTRICAL CHARACTERISTICS

| | |
|--|---|
| Maximum system voltage (DC) | 380V |
| Rated input voltage (DC) | 240V |
| Range of operating DC voltage (DC) | 110V - 350V |
| Maximum array short circuit current (DC) | 10A |
| Maximum operating current (DC) | 22.5A (7.5A per DC input x 3) |
| Nominal output voltage (AC) | 240V |
| Operating voltage range (AC) | 211V - 264V |
| Nominal output frequency (AC) | 60Hz |
| Operating frequency range (AC) | 59.3Hz - 60.5Hz |
| Maximum continuous output current (AC) | 15A |
| Maximum continuous output power (AC) | 3500W (at DC input 160-320V) |
| Maximum input power (DC) | 4500W |
| Peak conversion efficiency | 92.4% |
| Power factor | More than 0.95 |
| Total harmonic distortion (THD) | Less than 5% |
| Operating temperature | Inverter: -4°F to 104°F / -20°C to +40°C LCD Display: 32°F to 104°F / 0°C to +40°C |

MAIN CIRCUIT

| | |
|--------------------------------|---|
| Solar power conditioner system | Fixed voltage current control system |
| Switching system | PWM (pulse width modulation) system |
| Isolation system | Built-in high frequency isolation transformer system |
| Electric system | 1-phase 2-wire system (connected to 1-phase 3-wire system) |

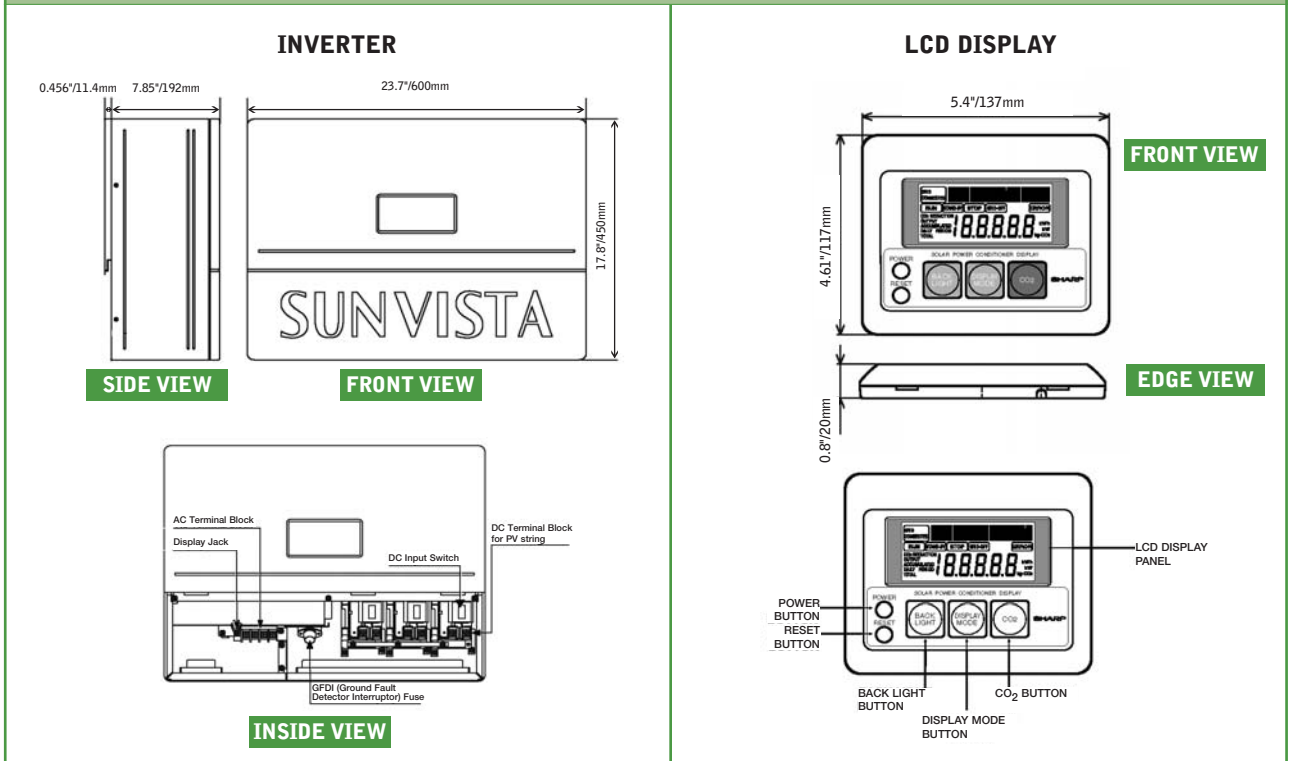
PROTECTION

| | |
|---------------------------|---|
| Grid-connected protection | AC Over Voltage / Under Voltage, AC Over Frequency / Under Frequency detection anti-islanding component (IEEE929) |
| Ground fault protection | DC detector / interrupter |

MECHANICAL CHARACTERISTICS

| | | |
|------------------------|--------------|---|
| Dimensions (W x D x H) | Inverter: | 23.7 x 17.8 x 7.85" / 600 x 450 x 192mm |
| | LCD Display: | 5.4 x 4.61 x 0.8" / 137 x 117 x 20mm |
| Weight | Inverter: | Approx. 61.7 lbs / 28 kg |
| | LCD Display: | Approx. 0.44 lbs / 0.2 kg |
| Enclosure type | NEMA 3R | |

DIMENSIONS



Specifications are subject to change without notice.

In the absence of confirmation by product manuals, Sharp takes no responsibility for any defects that may occur in equipment using any Sharp devices. Contact Sharp to obtain the latest product manuals before using any Sharp device.

