TECHCOM

SOLAR POWER INVERTER SYSTEMS

TECHNICAL DATA SHEET

Model: SSD-INV-3KVA-Solar

Techcom 3KVA / 3000VA Off-Grid Pure Sine Wave Solar Inverter

- **Rated Power:** 3000 VA / 2400 W
- **Peak Efficiency:** Up to 93%
- **Output Waveform:** Pure Sine Wave
- **Solar Controller:** Built-in High Efficiency PWM/MPPT
- **System Voltage:** 24 VDC Nominal
- **Transfer Time:** Fast 10 ms (UPS Mode)

AC INPUT SPECIFICATIONS

Nominal AC Voltage	230 VAC
Selectable Voltage Range	170 - 280 VAC (For Personal Computers) 90 - 280 VAC (For Home Appliances)
Frequency Range	50 Hz / 60 Hz (Auto Sensing)
Input Protection	Circuit Breaker / Fuse

AC OUTPUT SPECIFICATIONS

Rated Capacity	3000 VA / 2400 Watts
AC Voltage Regulation	230 VAC ± 5% (Battery Mode)
Surge Capacity (Peak)	6000 VA (5 Seconds)
Waveform	Pure Sine Wave
Efficiency (Peak)	90% - 93%
Transfer Time	10 ms (PC) / 20 ms (Appliances)

BATTERY & CHARGER SPECIFICATIONS

Nominal DC Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	31 VDC - 32 VDC
Max AC Charge Current	20A / 30A (Selectable)
Solar Charger Type	PWM / MPPT Integration
Max Solar Charge Current	50A / 60A Max
Max PV Array Power	1200 W - 1500 W

ENVIRONMENTAL & PHYSICAL

Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-15°C to 60°C
Relative Humidity	5% to 95% (Non-condensing)
Enclosure / Mounting	Compact Wall-Mount Bracket
Display & Control	LCD Display + LED Indicators

Key Operational Highlights & Protections

- Multi-stage smart battery charger with thermal management to optimize battery performance and lifespan.
- Configurable AC/Solar input priority via LCD settings interface.
- Comprehensive safety protection against Overload, Short Circuit, High/Low DC Voltage, Over-temperature, and Reverse Polarity.
- Auto-restart feature while AC utility grid is recovering.

Disclaimer: Product specifications, design features, and dimensions are subject to technical change without prior notice due to continuous product engineering and regional variations. Please verify with your authorized regional Techcom distributor or technical service provider prior to installation.