SCC SOHO INVERTER Series

Off-grid solar rechargeable household inverter power supply
600V~1500VA with 50A solar charger  |  2KVA~5KVA with 100A solar charger

Features:

High reliability system
Advanced digital automatic control technology to ensure the power durable and reliable

Strong environment adaptability
Wide input voltage and frequency range avoid frequent switching.
High input frequency range, easy access to all kinds of generator.
Intelligent charging mode.
Shutdown charging function.
Three steps charging mode.

Full display information
LED display: AC, PV, inverter output, fault, charge, battery low.
LCD display: input voltage, input frequency, output voltage, output frequency, battery voltage, PV input voltage, solar charger, full load, temperature, failure.

LCD+LED display mode
Full protection function
Inverter short circuit and overload protect function.
Battery over discharge protection.
Solar cell module polarity reverse connection protection.
Solar charge controller, inverter, and other internal short circuit protection.
## Technical Specifications

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<tbody>
<tr>
<td>CAPACITY</td>
<td>0.6 / 0.48</td>
<td>0.8 / 0.64</td>
<td>1 / 0.8</td>
<td>1.5 / 1.2</td>
<td>2 / 1.6</td>
<td>3 / 2.4</td>
<td>4 / 3.2</td>
<td>5 / 4</td>
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### LINE MODE

**Input**
- Nominal input Voltage: 220Vac
- Operating Voltage Range:
  - 145~285Vac (UPS mode)
  - 120~300Vac (Inverter mode)
- Operating Frequency Range: 38~70 Hz

**Output**
- Voltage:
  - 200~240Vac (UPS mode)
  - 180~255Vac (Inverter mode)
- Frequency Range: Same as Mains
- Waveform (Mains, Mode): Tracking Mains
- Efficiency: >95% (Full R load and battery fully charged)
- Transfer Time:
  - UPS mode (High sensitivity): 8ms typical, 10ms Max.
  - Inverter mode (Low sensitivity): 140ms Max, (Slow start)

### BACKUP MODE

**Output**
- Voltage: 220Vac (±5%)
- Frequency Range: 50 ± 1Hz
- Waveform (Batt. Mode): Pure Sine Wave
- Efficiency: > 80% > 80% > 82% > 83% > 85% > 85% > 86% > 86%

### AC CHARGER

**Charging Algorithm:** 3-Step Charging
- Maximum Charging Current: 10A / 20A Selectable, 20A / 40A Selectable
- Floating Charging Voltage: 13.8Vdc 13.8Vdc 27.6Vdc 27.6Vdc 27.6Vdc 27.6Vdc 55.2Vdc 55.2Vdc
- Over Charging Voltage: 15.0Vdc 15.0Vdc 30Vdc 30Vdc 30Vdc 30Vdc 60Vdc 60Vdc

### SOLAR CHARGER

- Maximum PV Array Power: 600W 1200W 2400W 4800W
- Maximum Charging Current: 50A 100A
- Battery Voltage: 12Vdc 24Vdc 48Vdc
- Operating Voltage: 15~18Vdc 30~36Vdc 60~72Vdc
- Maximum PV Array Open Circuit Voltage: 45Vdc 65Vdc 85Vdc
- Typical Recharge Time: Depended on external battery

### PROTECTION

- Full Protection: Overload, over-charged, over-discharged, over-temperature, short-circuit protection

### ALARM

- Battery Mode: Beep 1 time per 10 seconds, mute after 3min
- Battery Low: Periodic: beep 2 times, then mute 1 second;
- Overload: Periodic: beep 4 times in 3 seconds, then mute 2 second;
- UPS startup: Beep for 2s
- Fault: Continuously sounding

### PHYSICAL

- Dimension (D×W×H) mm: 362.5×295×187.3 439.2×392.4×266 499.2×418.4×286
- Packing (D×W×H) mm: 424×385×272 495×478×378 538×515×398
- Net weight(kg): 13.5 14.5 15.5 18.5 27 32 38.5 44.5
- Shipping weight(kg): 15 16 17 20 28.5 33.5 40 46

### OPERATING ENVIRONMENT

- Humidity: 0~90% RH @ 0~40°C (non-condensing)
- Noise Level: Less than 50dB

Specifications subject to change without prior notice.