

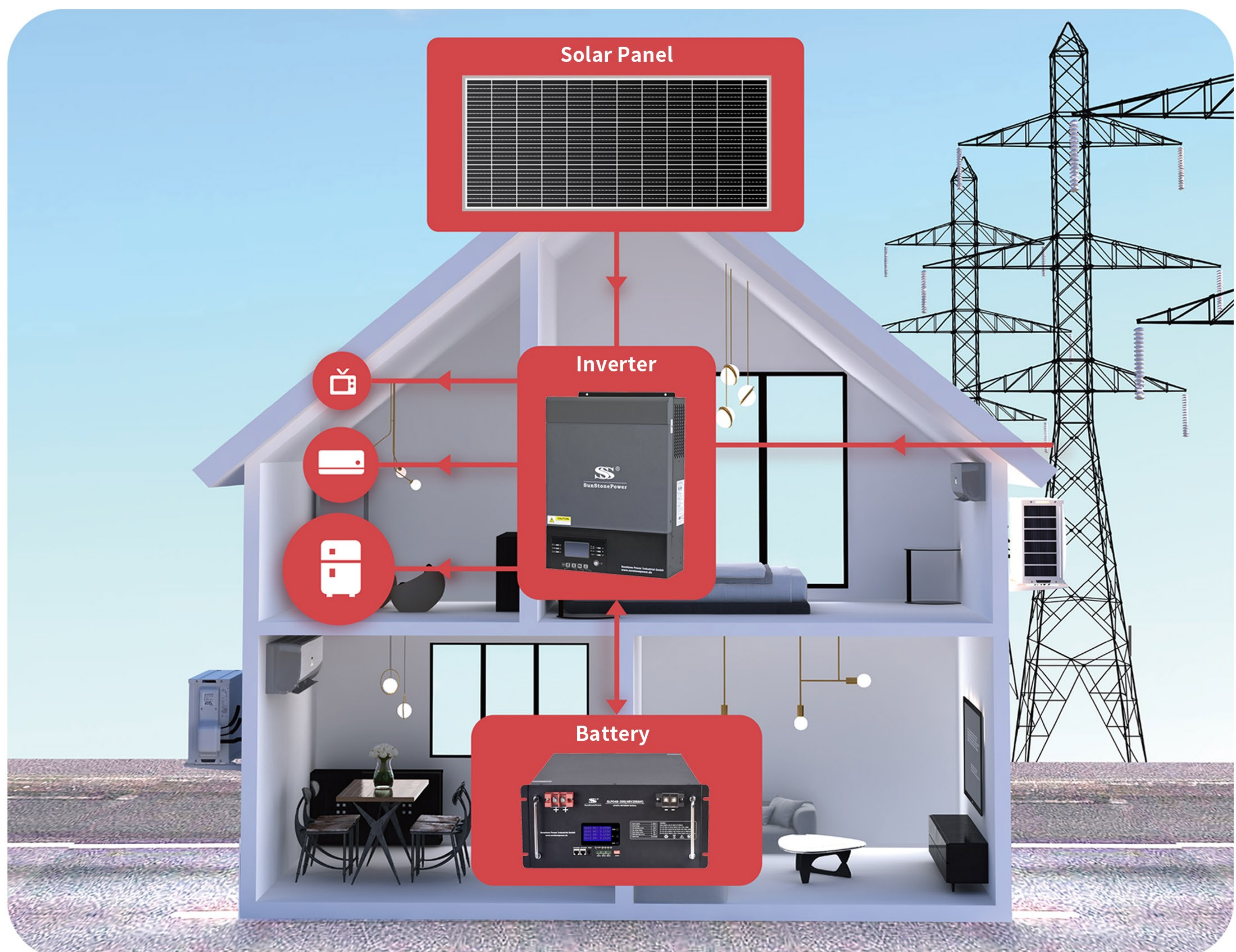
SMCIH-H series

Sunstone MPPT Charger Inverter Off-grid High-frequency High PV Voltage Range

The SMCIH-H series is a multifunctional charger inverter that combines the functions of the inverter, solar charger, and battery charger to provide an uninterruptible power supply in a portable size. The LCD display enables configurable and directly accessible key usage such as battery charging current, solar charger priority, and permissible input voltage based on different applications.

Key Features

- Replaceable fan design for ease of maintenance
- Built-in WiFi for mobile monitoring (Android/iOS Apps are available)
- Supports USB On-the-Go function
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Battery independent design
- Battery equalization extends lifecycle
- Built-in anti-dust kit
- User-friendly LCD operation
- Parallel operation



MODEL	SMCIH120-4KW-24V-H	SMCIH120-6KW-48V-H	SMCIH120-8KW-48V-H	SMCIH150-11KW-48V-H
Rated Power	4000VA/4000W	6000VA/6000W	8000VA/8000W	11000VA/11000W
Parallel Capability	/	/	6 units	6 units
INPUT				
Voltage	230VAC			
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation(Batt. Mode)	230VAC±10%		230VAC±5%	230VAC±5%
Surge Power	8000VA	12000VA	16000VA	22000VA
Efficiency(Peak)	90%~93%			93%
Transfer Time	10 ms(For Personal Computers) 20 ms(For Home Appliances)			
Waveform	Pure sine wave			
No Load Power Consumption	/	/	<70W	<70W
Dual Outputs	/	/	yes	yes
BATTERY				
Battery Voltage	24 VDC	48 VDC	48 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC	54 VDC	54 VDC
Overcharge Protection	33 VDC	63 VDC	66 VDC	63 VDC
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
Maximum PV Array Power	5000W	6000W	8000W(4000W×2)	11000W
MPPT Range @ Operating Voltage	120~450 VDC	120~450VDC	90~450 VDC	90~450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC	500 VDC	500 VDC	500 VDC
Maxmum Solar Charge Current	120A	120A	120A	150A
Maximum AC Charge Current	100A	100A	120A	150A
Maximum Charge Current	120A	120A	120A	150A
PHYSICAL				
Dimension, D x W x H (mm)	115×300×400		147.4×432.5×553.6	
Net Weight(kgs)	9	10	18.4	
Communication Interface	USB/RS232/RS485/WiFi/Dry- contact			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-15°C to 60°C			