

SMCIH-HBH(T) Series

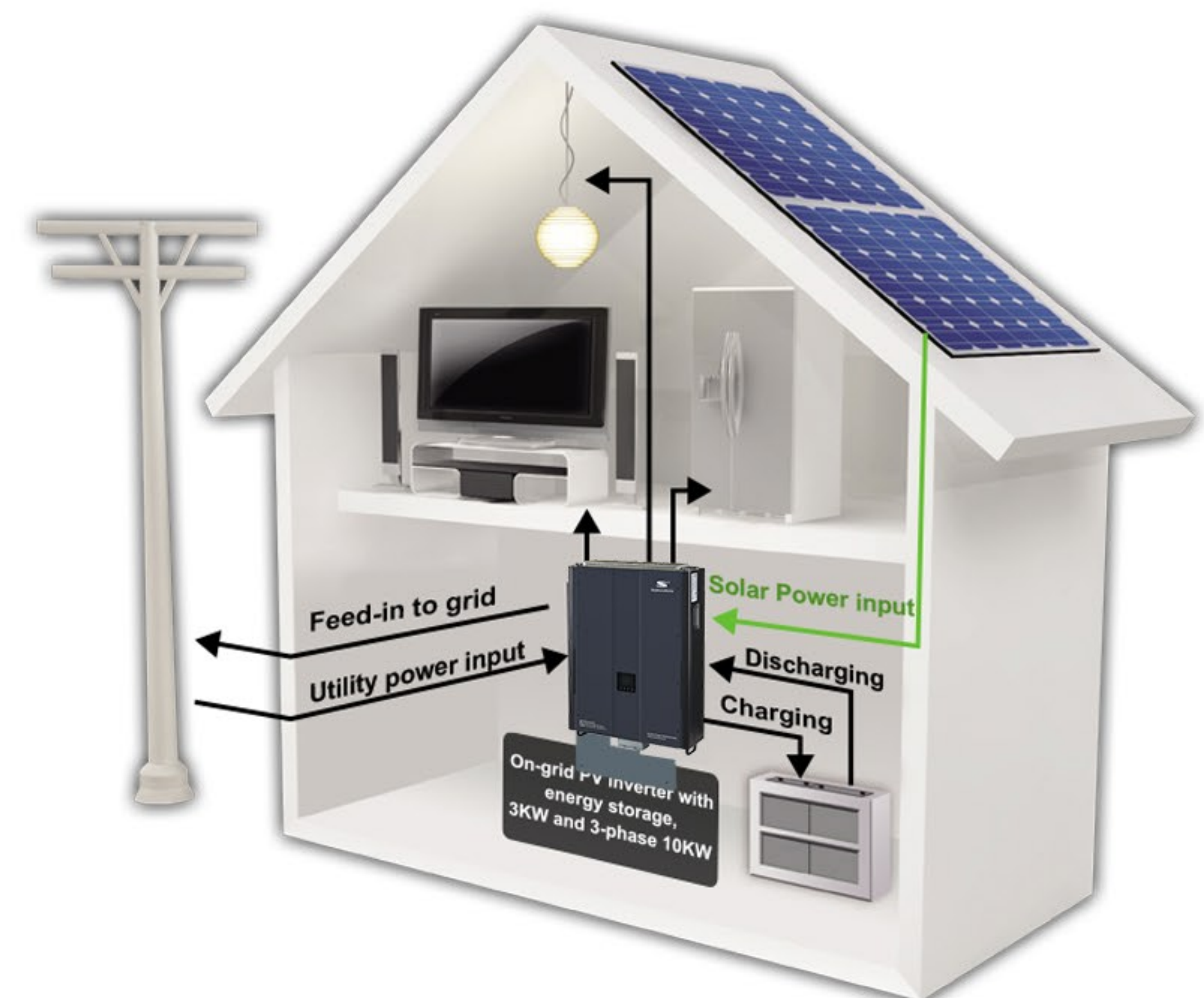
Sunstone MPPT Charger Inverter Hybrid High Voltage Range Three Phases

SMCIH-HBH(T) Series is a flexible and intelligent hybrid inverter that utilizes solar power, AC utility, and battery power source to supply continuous power.

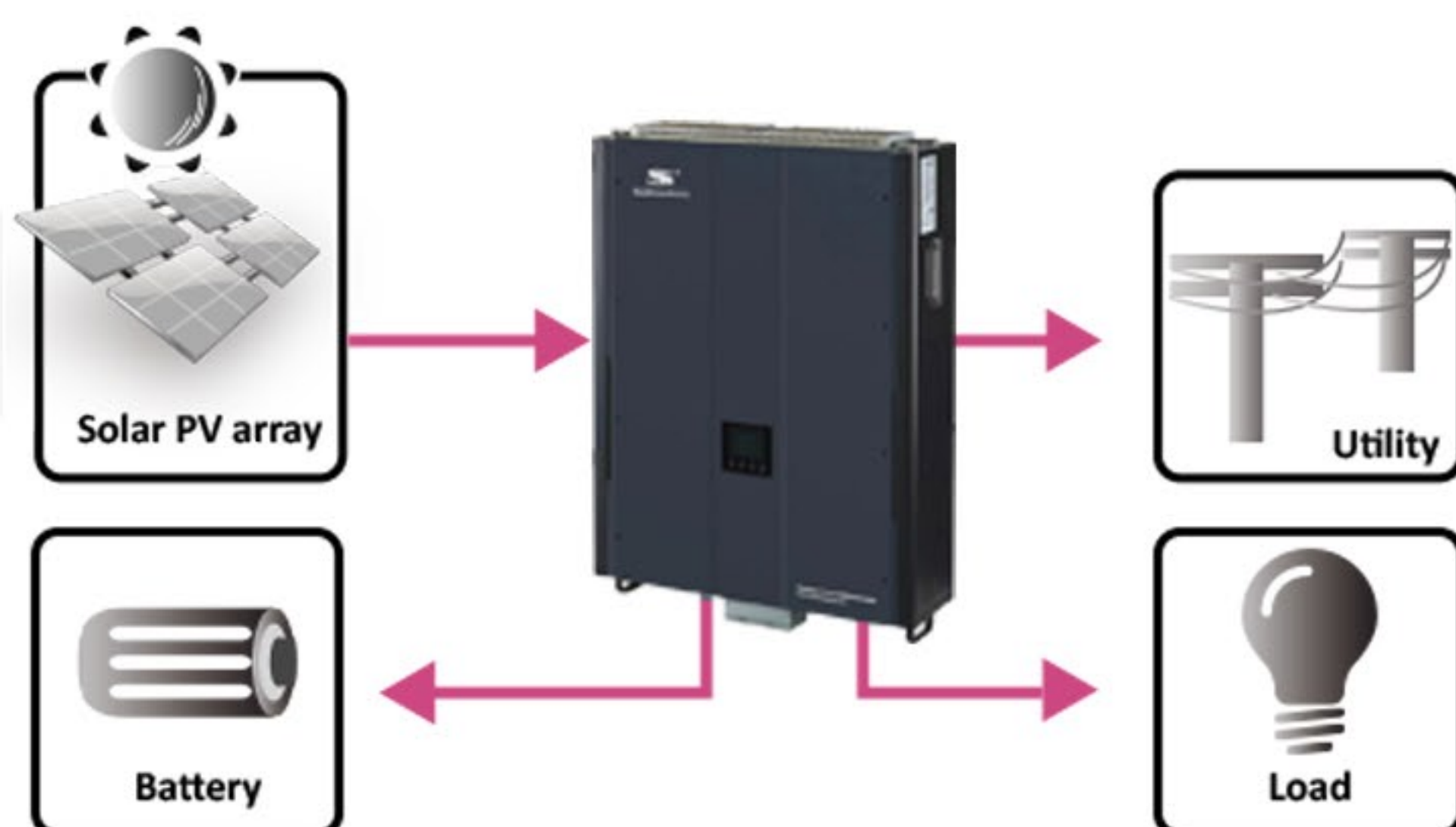
It's a simple and smart solar power storage system for home users to either store energy into a battery for night-time usage or use for self-consumption first depending on demands. Priority for the power source is programmable through smart software. During nighttime or power failure, it will automatically consume reserved power from the battery. In this way, it will reduce dependence on the utility.

Features

- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery, or Grid
- User-adjustable battery charging current suits different types of batteries
- Programmable multiple operations modes: Grid-tie, Off-grid, and grid-tie with backup
- Built-in Timer for various modes of on/off operation
- Multiple communication for USB, RS-232, Modbus, and SNMP
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units for 10KW and 15KW



Operate as an off-grid inverter when AC failed



Use battery energy first when PV energy is low



MODEL	SMCIH200-10KW-48V-HBH(T)	SMCIH300-15KW-48V-HBH(T)
PHASE	3-phase in/3-phase out	
MAXIMUM PV INPUT POWER	14850W	22500W
RATED OUTPUT POWER	10000W	15000W
MAXIMUM CHARGING POWER	9600W	15000W
GRID-TIE OPERATION		
PV INPUT(DC)		
Nominal DC Voltage/ Maximum DC Voltage	720 VDC/900 VDC	720 VDC/900 VDC
Start-up Voltage/Initial Feeding Voltage	320 VDC/350 VDC	320 VDC/350 VDC
MPP Voltage Range	400 VDC~800 VDC	350 VDC~850 VDC
Number of MPP Trackers / MaximumInput Current	2/2×18.6A	2/A:37.65A;B:18.6A
GRID OUTPUT(AC)		
Nominal Output Voltage	230 VAC (P-N)/400 VAC (P-P)	
Output Voltage Range	184-265VAC' per phase	184-264.5VAC per phase
Nominal Output Current	14.5A per phase	21.7A per phase
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	96%	
European Efficiency@ Vnominal	95%	
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/ Auto Restart Voltage	120-140 VAC per phase /180 VAC per phase	
Acceptable Input Voltage Range	170-280 VAC per phase	
Maximum AC Input Current	40A	
PV INPUT(DC)		
Maximum DC Voltage	900VDC	900 VDC
MPP Voltage Range	400 VDC~800 VDC	350 VDC~850 VDC
Number of MPP Trackers/Maximum Input!Current	2/2×18.6A	2/A:37.65A; B:18.6A
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	230 VAC(P-N)/400 VAC(P-P)	230 VAC(P-N)/400 VAC(P-P)
Output Waveform	Pure Sine Wave	
Efficiency (DC to AC)	91%	
HYBRID OPERATION		
PV INPUT(DC)		
Nominal DC Voltage /Maximum DC Voltage	720VDC/900 VDC	720 VDC/900 VDC
Start-up Voltage /Initial Feeding Voltage	320 VDC/350 VDC	320 VDC/350 VDC
MPP Voltage Range	400VDC~800 VDC	350 VDC~850 VDC
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Efficiency(DC to AC)	91%	91%
BATTERY & CHARGER		
Nominal DC Voltage	48VDC	
Maximum Charging Current	Default 60A,10A-200A (Adjustable)	Default 60A,5A-300A (Adjustable)
GENERAL		
PHYSICAL		
Dimension,Dx WxH(mm)	167.2×500×622	219×650×820
Net Weight(kgs)	40	62
INTERFACE		
Communication Port	RS-232/USB	RS-232,USB and Dry contact
Intelligent Slot	Optional SNMP,Modbus anc AS-400 cards available	
ENVIRONMENT		
Humidity	0~90%RH(Non-Condensing)	
Operating Temperature	-10 to 55℃	
Altitude	0~1000m	