



HYBRID SOLAR INVERTER

SIH SERIES



Unipower Solar Inverter solutions are available with advanced and intuitive appbased remote control and monitoring functionality.

Hybrid Solar Inverter

SIH48-3E/ SIH48-5E/ SIH48-8E/ SIH48-10E

Hybrid SOLAR INVERTER

SIH series is a Solid Single Phase Hybrid Solar Inverter. The inverter has an elegant design and is easy to install. It utilizes advanced MPPT solar charging & supports Li-Ion battery BMS communication. Complete suite of hardware and software protection.

For More about Unipower range of products, visit:
www.unipowerenergy.com



Easy Installation

Plug and Play setup.
Bulletproof protection for hardware and software.



MPPT

Advanced MPPT charging with 99.9% efficiency



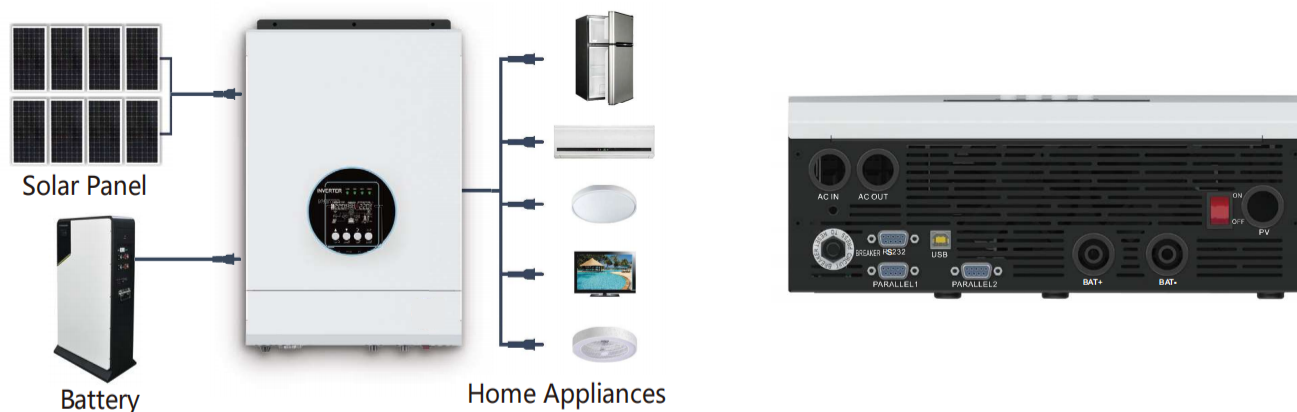
Wide Voltage range

170~280 Vac/ 90~280Vac



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



Model No	SIH48-3E	SIH48-5E	SIH48-8E	SIH48-10E
Output				
Rated Output Power	3KVA/3KW	5KVA/5KW	8KVA/8KW	10KVA/10KW
Output Format	L+N+PE	L+N+PE	L+N+PE	L+N+PE
Rated Output Voltage	208/220/230/240 VAC±5%			
Output Frequency	50/60Hz±0.1%			
Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Peak Power	6000VA	10000VA	16000VA	20000VA
Overload Capacity	Battery Mode: 1min@102%~110% Load ; 10s@110%~130%Load; 3s@130%~150% Load ; 200ms@>150% Load			
Peak Efficiency (Battery Mode)	>94%	>94%	>93%	>93%
Transfer Time	10ms	10ms	10ms	10ms
AC Input				
Input Format	L+N+PE	L+N+PE	L+N+PE	L+N+PE
Rated Input Voltage	208/220/230/240 VAC			
Input Voltage Range	170~280VAC(For PC);90~280VAC(For Home Appliances)			
Frequency Range	50/60Hz(Auto Sensing)			
PV Input				
Solar Charging Type	MPPT	MPPT	MPPT	MPPT
PV Max. Input Power	4000W	5500W	8800W	11000W
MPPT Tracking Voltage Range	120-430 VDC	120-430 VDC	120-430 VDC	120-430 VDC
Max. PV Input Voltage	450 VDC	450 VDC	450 VDC	450 VDC
Max. PV Charging Current	80A	80A	80A+80A	80A+80A
Max. Charging Current	80A	80A	80A+80A	80A+80A
Battery				
Rated Voltage	48VDC	48VDC	48VDC	48VDC
Battery Type	Li-ion/ Lead-Acid			
Constant voltage charging voltage (can be set)	56.4 VDC	56.4 VDC	56.4 VDC	56.4 VDC
Float charging voltage (can be set)	54 VDC	54 VDC	54 VDC	54 VDC
Product General Data				
Communication Interface	RS232	RS232	RS232	RS232
Expansion slot communication interface	RS485; CAN, SNMP, WiFi			
Display	LED Screen	LED Screen	LED Screen	LED Screen
Parallel Interface	N/A	Yes	N/A	N/A
Operation Environment Temperature	0~40°C	0~40°C	0~40°C	0~40°C
Storage Environment Temperature	-15~60°C	-15~60°C	-15~60°C	-15~60°C
Environment Humidity	20%~95% (Non-condensing)			
Operation Altitude	<2000m	<2000m	<2000m	<2000m
Cooling Mode	Active Cooling	Active Cooling	Active Cooling	Active Cooling
Noise Emission	<50db	<50db	<50db	<50db
Demension(W*H*D)(mm)	110*300*450	110*300*450	145*620*480	145*620*480
Weight (kg)	7kg	7.8kg	16kg	16kg
Safety Standard	IEC62109-1; IEC60335; IEC62100			
Certificate	CE; UN38.3; MSDS			