

Single Phase Hybrid Inverter

SolarAll-H1 3~6kW

SolarAll-H1 Series 3kW - 6kW inverter is a new generation of photovoltaic energy storage inverter integrates many functions such as charging, energy storage, photovoltaic, BMS battery management system and so on. It can automatically identify the offgrid/grid connection mode and connect to the smart grid to achieve peak load and valley demand.



Higher Reliability

- IP65 Outdoor & Indoor use
- Natural Cooling, Ultra Silence
- SiC Technology, Longer Lifespan
- Plug-in Design, Easy to Install

High Flexibility

- 15 Units in Parallel
- Support AC Coupled
- 2 Independent Ports for Battery
- Support Mixture use of Old & New Battery

Smart Monitoring

- Auto Sleep
- VPP Interface Ready
- Cloud + Smart Data Analysis

Strong Load Adaptability

- UPS Function
- Flexible DO Control
- 10ms On/Off-Grid Switchover

Technical Specifications

Hybrid Inverter Model	SAH1-3.0	SAH1-3.6	SAH1-4.0	SAH1-4.6	SAH1-5.0	SAH1-6.0
Off-Grid Output						
Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Nominal Voltage	220V/230V/240V					
Nominal Frequency	50/60Hz					
Nominal Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Output THDu	<2%					
On-Grid Parameter						
Nominal Output Power	3000W	3600W	4000W	4600W	5000W	6000W
Max. Output Current	13.6A	16.4A	18.2A	20.8A	22.7A	27.2A
Nominal Grid Voltage	220V/230V/240V					
Max. Input Current from Grid	16.4A	22.7A		27.2A		
Grid Voltage Range	184-276V					
Frequency Range	45-65Hz					
PV Input						
Max. Input Power	4500Wp	6000Wp		7500Wp		9000Wp
Starting Voltage	95V					
Max. Input Voltage	600V					
MPPT Voltage Range	80-550V					
Full Load MPPT Voltage Range	350-500V					
Number of MPPT	2					
Max. Input String Per MPPT	1					
Nominal Input Voltage	360V					
Max. Input Current	13A/13A					
Battery Parameter						
Battery Type	Lithium-ion					
Nominal Battery Voltage	51.2V					
Battery Voltage Range	42-58V					
Max. Charging Voltage	≤60V					
Max. Continuous Discharging Current	75A	85A		100A		
Efficiency						
Max. Efficiency	97.5%		97.8%		98.0%	
European Efficiency	97.2%		97.3%		97.5%	
Max. Battery Charging/Discharging Efficiency	95.2%					
General Data						
Size (WxHxD)	500 x 470 x 180					
Weight	23kg					
Noise	<25dB(A)					
Operating Temperature Range	-25C~+60C					
Cooling Method	Natural Cooling					
Ingress Protection Grade	IP65					
Monitoring	LED/APP/WIFI/4G/Bluetooth					
Communication Port	RS485/CAN/DRED/DO/Parallel Port					
Protection	DC Switch, PV Insulation Resistance, Residual Current Monitoring, Anti-islanding Protection, Reverse Polarity Protection (PV&Battery), AC Short Circuit Protection, AC Overcurrent Protection, AC Overvoltage Protection: LEVEL III: PV&Battery: LEVEL II, Surge Protection, Lightning Protection TYPE II					
Certification						
CE_LVD	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2					
CE_EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4					
Grid	VDE-AR-N 4105, VDE V 0126-1-1, C10-11, G99, CEI 0-21, EN50549, NRS 097-2-1, AS 4777.2, R25, UNE217001, UNE217002, NTS 2.1					

Highlights



HIGHER
RELIABILITY



HIGH
FLEXIBILITY



SMART
MONITORING



STRONG LOAD
ADAPTABILITY