

Single Phase Hybrid Inverter

SolarAll-H 3-6kW

SolarAll-H 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 | SAHB3 | SAHB3K6 | SAHB4 | SAHB4K6 | SAHB5 | SAHB6 |
|--|---|---------|-------|---------|-------|--------|
| 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