

# Three Phase Hybrid Inverter

# SolarAll-HT 10~20kW



SolarAll-HT Series 10-20kW inverter is a high performance high yield new generation of PV 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
- 100% Three Phase Unbalance

## Technical Specifications

Hybrid Inverter Model	SAHT-10	SAHT-12	SAHT-15	SAHT-20
<b>Off-Grid Output</b>				
Nominal Output Power	10kW	12kW	15kW	20kW
Nominal Voltage	3/N/PE, 220/380VAC, 230/400VAC			
Nominal Frequency	50/60Hz			
Nominal Output Current	15A	18A	22.5A	30A
Output THDu	<3%			
<b>On-Grid Parameter</b>				
Nominal Output Power	10kW	12kW	15kW	20kW
Max. Output Power	11kVA	13.2kVA	16.5kVA	22kVA
Max. Input Power from Grid	20kVA	24kVA	30kVA	40kVA
Max. Input Current from Grid	30A	35A	44A	60A
Max. Output Current	16A	20A	24A	32A
Nominal Grid Voltage	3/N/PE, 220/380VAC, 230/400VAC, 240/415V			
Grid Voltage Range	184-276V/320-480V			
<b>PV Input</b>				
Max. Input Power	15000Wp	18000Wp	22500Wp	30000Wp
Max. Input Voltage	1000V			
Number of MPPTs	2			
Max. Input String Per MPPT	2			
MPPT Voltage Range	180-960V			
Full Load MPPT Voltage Range	15000Wp	18000Wp	22500Wp	30000Wp
Nominal Input Voltage	600			
Starting Voltage	200V			
Max. Input Current	25A/25A			
Short-Circuit Current	30A/30A			
<b>Battery Parameter</b>				
Battery Type	Lithium-ion			
Number of Battery Input	2			
Battery Voltage Range	160-800V			
Full Load Battery Voltage Range	210-800V	250-800V	300-800V	400-800V
Peak Charging/Discharging Current & Duration	35A/35A (60s)			
Max. Charging/Discharging Current	25A/25A			
<b>Efficiency</b>				
Max. Efficiency	98.2%			
European Efficiency	97.7%			
Max. Battery Charging/Discharging Efficiency	97.8%			
<b>General Data</b>				
Size (WxHxD)	573 x 509 x 219			
Weight	35kg			
Noise	<45dB(A)			
Operating Temperature Range	-25C~+60C			
Cooling Method	Air 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			
<b>Certification</b>				
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