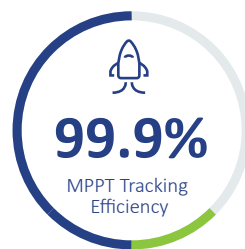
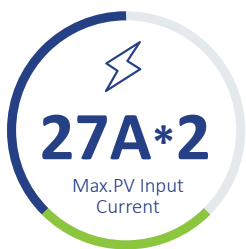




Single Phase Hybrid Inverter

HESS-HY-S-6K-S

SMART ENERGY
SUSTAINABLE SOLUTIONS ”



Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 16A+16A PV input current"

User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals available

Powerful

- Up to 100A charging current
 - Supports Li-ion battery BMS communication"
- Reliable

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Single Phase Hybrid Inverter

Model	HESS-HY-S-6K-S
Off-grid Output	
Rated Output Power	6000W
Max. Peak Power	12000VA
Rated Output Voltage	230Vac
Load Capacity of Motors	4HP
Output Frequency Range	50Hz ± 0.3Hz/60Hz ± 0.3Hz
Switching Time	10ms (typical)
On-grid Output	
Rated Output Power	6000W
Max. Apparent Power	12000VA
Rated Output Current	26A
Max. Output Current	28.6A
THDI	< 3%
Power Factor	0.8 leading to 0.8 lagging
Rated Voltage	230Vac, single phase
Frequency	50Hz/60Hz
Battery	
Battery Type	Lead-acid / Li-ion / User-defined
Rated Battery Voltage	48V (minimum start-up voltage 44V)
Battery Voltage Range	40 ~ 60Vdc
Max. PV Charging Current	100A
Max. Utility Charging Current	60A
Max. Generator Charging Current	60A
PV Input	
Num. of MPPT	2
Max. Input Power	4500W+4500W
Max. Input Current	16A+16A
Max. Short-circuit Current	27A+27A
Max. Open-circuit Voltage	500Vdc+500Vdc
MPPT Operating Voltage Range	120~450Vdc
Utility / Generator Input	
Input Voltage Range	90 ~ 280Vac
Input Frequency Range	50/60Hz
Bypass Overload Current	40A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max. Efficiency	97.50%
General	
Num. of Parallel	1-6 units
Dimension	556*345*182mm
Weight	20kg
Ingress Protection Degree	IP65

Single Phase Hybrid Inverter

Model	HESS-HY-S-6K-S
Operating Temperature Range	-25~60°C (>45°C derating)
Humidity Range	0% ~ 100%
Noise	<60dB
Cooling Method	heatsink & intelligent air cooling
Communication	
Internal Interface	RS485/CAN/USB/Dry contact
External Module (optional)	WiFi/GPRS
Certification	
On-grid Certification	EN50549-1, NRS-097
Safety	IEC 62109
EMC	EN 61000
RoHS	Yes