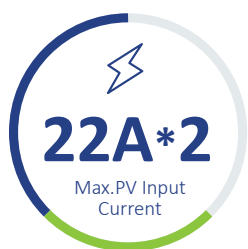




Single Phase Hybrid Inverter

HESS-HY-S-12K-S

SMART ENERGY
SUSTAINABLE SOLUTIONS ”



Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Up to 22A+22A PV input current"

User-Friendly

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

Reliable

- Up to 200A charging current
- With IP65 protection degree

Safety

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

Powerful

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

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-12K-S
Inverter Output	
Rated Output Power	12000W
Max. Peak Power	24000VA
Rated Output Voltage	230Vac
Load Capacity of Motors	6HP
Output Frequency	50/60Hz
Number of Parallel	1~6 units
AC Output (Grid)	
Rated Output Power	12000W
Max. Apparent Power	12000VA
Rated Output Current	54.5A
Max. Output Current	230Vac
THDI	< 3%
Power Factor	0.8 leading to 0.8 lagging
Frequency	50/60Hz
Battery	
Battery Type	Lead-acid / Li-ion / User-defined
Rated Battery Voltage	48V
Battery Voltage Range	40~60Vdc
Max. Generator Charging Current	60A
Max. Grid Charging Current	120A
Max. PV Charging Current	200A
Max. Hybrid Charging Current	200A
PV Input	
Num. of MPPT	2
Max. PV Array Power	6600W+6600W
Max. Input Current	22A+22A
Max. Voltage of Open-circuit	500Vdc+500Vdc
MPPT Voltage Range	152~425Vdc
Mains/Generator Input	
Input Voltage Range	90~280Vac
Frequency Range	50/60Hz
Bypass Overload Current	63A
Efficiency	
MPPT Tracking Efficiency	99.90%
Max. Efficiency	97.50%
European Efficiency	97%
General	
Dimension	670*440*240mm
Weight	37kg
Ingress Protection Degree	IP65
Operating Temperature Range	-25~60°C (>45°C derating)



Product Info

Hanchu Energy SA (PTY)LTD

- info@hanchuess.co.za
- +27 10 745 2702/3
- www.hanchuess.co.za

Jiangsu Hanchu Energy Technology Co., LTD

- info@hanchuess.co.za
- +0086-510-88865288
- www.hanchuess.com

Single Phase Hybrid Inverter

Model	HESS-HY-S-12K-S
Humidity Range	0% ~ 100%
Cooling Method	Forced air cooling
Communication	
Embedded Interfaces	RS485/CAN/USB/Dry contact
External Module (optional)	WiFi/GPRS
Certification	
Safety	IEC 62109
EMC	EN 61000
RoHS	Yes





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