



HESP 18kW

Three-Phase Hybrid Solar Storage Inverter



- 3-way MPPT input with open-circuit voltage of 600V and current of 40A; photovoltaic power supports up to 1.5 times the rated power.
- Supports dual battery interface inputs for more convenient and rapid battery paralleling.
- Adopts 48V battery with maximum charge/discharge current of 330A; uses high-frequency transformer isolation for low battery ripple current.
- Multifunctional port design supports diesel generator input, AC coupling input, and intelligent load switching.
- Enables parallel expansion for capacity expansion, allowing up to 6 units to be connected in parallel.
- Maximum mains bypass current is 200A.
- Peak shaving and valley filling function, configurable by week.
- 7-inch LCD screen provides an intuitive user experience.
- Optional WIFI or GPRS for remote monitoring.

ABOUT SRNE

- SRNE 16 years in PV industry, committed to independent R&D and production.
- Holds over 200 patents in energy storage, with unique industry-leading technologies.
- Chooses top-quality international components to deliver high-value products to customers.
- Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL		HESP48180UH3	
AC Data			
Rated Active Output Power	18000W		
Rated AC Voltage	120V/208V (3L+N+PE)		
Rated Frequency	50/60Hz		
Peak Apparent Power	27000VA (10s)		
Backup Power Switching Time	5ms (Adjustable)		
Rated Output Current	50A		
Max. AC Bypass Output Current	200A		
Adjustable Power Factor	0.8 Leading to 0.8 Lagging		
Battery			
Battery Type	Lead-Acid Batteries / Lithium Batteries		
Number of Battery Inputs	2		
Battery Voltage Range	40~60V		
Max. Hybrid/Grid Charging Current	330A		
Max. Discharge Current	330A		
Lithium Battery Charging Strategy	Adaptive BMS		
PV Data			
No. of MPPT Trackers	3		
No. of Strings MPPT Tracker	2		
Max. PV Input Power	27000W		
Open Circuit Voltage	600V		
MPPT Operating Voltage Range	120~500V		
Max. PV Input Current	40A/40A/40A		
Short-Circuit Current	48A/48A/48A		
Efficiency			
MPPT Tracking Efficiency	>99%		
Max. Efficiency	97.5%		
CEC Efficiency	96.5%		
General Data			
Parallel Capacity	1~6 Units		
Dimension	860x480x313mm	Temperature	-25~60°C, >45°C Derate
Weight	59kG	Humidity	0~100%
Protection Degree	IP65	Warranty	5 years
Noise	<35dB	Communication	RS485/CAN/USB/Dry Contact
External Module (Optional)	Wi-Fi/GPRS		
Certificate	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP		
Protection			
PV Circuit Breaker	Yes	PV Input Lightning Protection	Yes
PV Ground-Fault Detection (GFDI)	Yes	PV Polarity Reverse Protection	Yes
PV DC Arc-Fault Circuit Interrupter (AFCI)	Yes	PV DC arc fault detection (AFCI)	Yes
Surge Protection Rating	TYPE II(DC), TYPE II(AC)		