



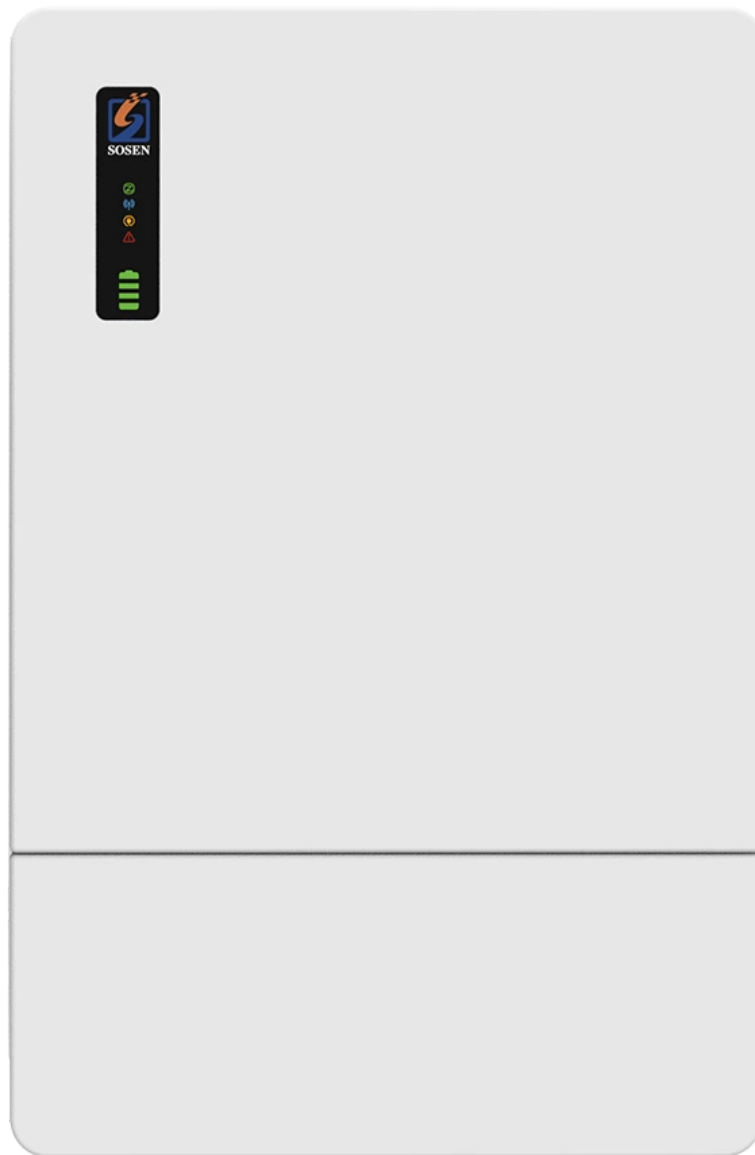
20KW~30KW Commercial Three Phase High Voltage Hybrid Inverter

SSE-HH20K~30K-P3EU three-phase high voltage hybrid inverter is designed to meet commercial and industrial energy storage needs. The maximum DC voltage is 1000V, and the maximum PV input is 3*36A d.c. Battery voltage ranges from 160V to 700V. IP65 protection degree. 10-Year warranty. It is equipped with a 4 MPPT design and 8 string inputs.

- High MPPT efficiency up to 99.9% for optimal performance.
- Fast switch time (<10ms) ensures seamless power.
- Wide MPPT voltage range: 180V~900V d.c.
- Supports 160V~700V lithium and lead-acid batteries.
- IP65 protection degree for various working scenarios.

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Safety, Reliability, Compatibility, Efficiency

SSE-HH20K~30K-P3EU

20K~30KW | Three Phase | High Voltage | IP65

The SSE-HH20K-30K-P3EU hybrid inverter supports multiple starting methods with a wide battery voltage range (160V-700V). The advanced digital control technology and TI's latest DSP greatly improve the MPPT dynamic response speed and accuracy. The harmonic current and voltage are less than 3%, reducing damage to the power grid and equipment.

Enhanced Accessibility & Versatility

Effortlessly access via WiFi and web. Offers diverse modes for varied applications. Features a range of interfaces and a fanless design for safety and durability.





Protect Your Power Supply

Built-in black start functionality ensures safe and high-efficiency backup power for your site



Commercial & Industrial

Versatile and adaptable for various applications, it can be installed indoors or in a customized container



100% Unbalanced Output

Supports 100% unbalanced load operation, even under off-grid conditions



Smart Management System

Enables peak load shifting and supports parallel operation from 4 to 12 units

Application Scenario





Car Charging Station

Related Parameters

TECHNICAL SPECIFICATION		
Model	SSE-HH20K-P3EU	SSE-HH30K-P3EU
INVERTER INPUT/OUTPUT (GRID)		
Rated Power (Input / Output)	60 kW / 20 kW	60kW / 30 kW
Rated Voltage	230V a.c./176V a.c.~270V a.c., L+N+PE	
Rated Frequency	50 Hz / 60 Hz	
Power Factor Range	0.8 leading ~ 0.8 lagging	
Switch Time	<10 ms	
Max. Continuous Current (Input / Output)	87 A a.c. / 29 A a.c.	87 A a.c. / 43.5 A a.c.
Max. Output Overcurrent Protection	250 V a.c. / 100 A a.c.	

Battery Voltage Range	125 ~ 800 V d.c.	
Rated Battery Voltage	200 V d.c.	300 V d.c.
Max. Charge Current	2*50 A d.c.	
Max. Discharge Current	2*50 A d.c.	
Reverse Connect Protection	Yes	
PV INPUT		
No. of MPPT Tracker / Strings	2 / 2+2+2	
Max. PV Array Power	34 kW	50 kW
Max. DC Voltage	1000 V d.c.	
MPPT Voltage Range	125 ~ 850 V d.c.	
Start-up Voltage	150 V d.c.	
Max. Input Current	40+40 A d.c.	
Isc PV (Absolute Maximum)	60+60 A d.c.	
AC OUTPUT (EPS)		
EPS Rated Output Voltage	380 / 400 V d.c., 3W+N+PE	
EPS Rated Output Frequency	50 Hz / 60 Hz	
EPS Rated Output Active Power	20 kW	30 kW
EPS Rated Output Apparent Power	22 kVA	33 kVA
EPS Rated Output Current	29 A a.c.	43.5 A a.c.
Overload Capacity (Off Grid)	100% 30s / 120% 10s / 150% 2s	
EFFICIENCY		
MPPT Efficiency	99.90%	
Euro-efficiency	97.50%	
Max. Efficiency	98.10%	
PROTECTION & FEATURE		
Insulation Monitoring	Yes	
Residual Current Monitoring	Yes	
Parallel Function	Yes	
Protection Degree	IP65	
Certifications	CE10-21, EN 50549-1, VDE-AR-N 4105, UNE 217002, NTSTYPEA, G99, AS/NZS 4777.2	
Other Protection	Overload, Over temperature, Short circuit, Active Anti-islanding	
GENERAL PARAMETER		
Storage Temperature	-40°C ~ +70°C	
Operating Temperature	-25°C ~ +60°C (>+45°C, Derating)	
Humidity	0 ~ 95% (Non-condensing)	
Operating Altitude	4,000 m (>2,000 m Derating)	
Noise	< 45 dB	
Demensions (W*H*D)	600*530*220 mm	

Display	LED + APP
Interface	RS485 / WiFi / CAN / DRM (Optional: Bluetooth / LAN / 4G / Meter)

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* Business Email

* Content

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