

40kW~60kW Three-Phase High Voltage Hybrid Inverter

SSE-HH40K-60K-P3EU three-phase high-voltage hybrid inverter offers high efficiency for commercial and industrial energy storage. Featuring SiC MOSFET technology, it provides reduced size and weight. It supports a battery voltage range of 150V-800V and dual battery interfaces for flexible configurations. With 4 MPPT strings, wide MPPT voltage range, fast switching time (<10ms), and IP66 protection, it ensures optimal performance. 5-Year warranty included.

- Advanced SiC MOSFET technology for higher efficiency and lightweight design.
- Fast switch time (<10ms) ensures seamless power.
- Wide MPPT voltage range: 150V-950V d.c max.1000V .
- Dual battery interfaces, supports 100A×2 for independent battery packs or 200A for parallel connections, providing flexibility.
- Supports black start, off-grid and economy mode for versatile power solutions.
- AC coupled to retrofit existing solar system.

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Safety, Reliability, Compatibility, Efficiency

SSE-HH40K~60K-P3EU

40K~60KW | Three Phase | High Voltage | IP66

The SSE-HH40K~60K-P3EU hybrid inverter integrates local and remote EMS functions to support multiple power grid dispatch modes. The battery voltage ranges from 150V to 800V. It also supports up to 6 parallel machines, and supports SOC balancing function under parallel machines. It supports single-phase 100% unbalanced load operation under off-grid conditions, adapting to various load scenarios.

Enhanced Accessibility & Versatility





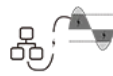
Commercial & Industrial

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-HH40K-P3EU	SSE-HH50K-P3EU	SSE-HH60K-P3EU
INVERTER INPUT/OUTPUT (GRID)			
Rated Power (Input / Output)	138 kW / 40 kW	138kW / 50 kW	138 kW / 60 kW
Rated Voltage	380 / 400 V a.c., 3W+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)	200 A a.c. / 58 A a. c.	200 A a. c. / 72 A a. c.	200 A a. c / 87 A a. c.
Max. Output Overcurrent Protection	123 A a. c.	153 A a. c.	185 A a. c.
BATTERY			
Battery Type	Lithium / Lead-acid		

Max. Charge Current	2*100 A d. c.		
Max. Discharge Current	2*100 A d. c.		
Reverse Connect Protection	Yes		
PV INPUT			
No. of MPPT Tracker/Strings	4 / 2+2+2+2		
Max. PV Array Power	68 kW	85 kW	100 kW
Max. DC Voltage	1000 V d. c.		
MPPT Voltage Range	150 ~ 950 V d. c.		
Start-up Voltage	125 V d. c.		
Max. Input Current	8x20 A d. c.		
Isc PV (Absolute Maximum)	8x30 A d. c.		
AC OUTPUT (EPS)			
EPS Rated Output Voltage	380 / 400 V a.c., 3W+N+PE		
EPS Rated Output Frequency	50 Hz / 60 Hz		
EPS Rated Output Active Power	40 kW	50 kW	60 kW
EPS Rated Output Apparent Power	44 kVA	55 kVA	66 kVA
EPS Rated Output Current	58 A a. c.	72 A a. c.	87 A a. c.
Overload Capacity (Off Grid)	110% 30s / 120% 10s / 150% 0.2s		
EFFICIENCY			
MPPT Efficiency	99.9%		
Euro-efficiency	97.5%		
Max. Efficiency	98.5%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes, up to 6pcs		
Protection Degree	IP66		
Certifications	CEI0-21, EN 50549-1, VDE-AR-N 4105, UNE 217002, NTSTYPEA, G99, AS/NZS 4777.2		
Other Protection	Ground Fault Current Monitoring, Earth Fault Detection, Residual Current (RCD) Detection		
GENERAL PARAMETER			
Storage Temperature	-25°C ~ +60°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	<65 dB		
Dimensions (W*H*D)	544*880*278 mm		
Shipping Dimensions (L*W*H)	680*1050*400 mm		
Machine Weight / N.W.	88 kg		

Interface	RS485 / WiFi / CAN / DRM (Optional: Bluetooth / LAN / 4G / Meter)
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