SOSEN

SSE-HH8~12K-P3EU

Three Phase I 2 MPPTs Hybrid Inverter (HV)

The SSE-HH8~12K-P3EU is a three-phase high-voltage hybrid inverter built for residential and small commercial storage. It supports 125–800V battery voltage, 100% unbalanced loads, and <10ms UPS-level switching to ensure power continuity.With 150% PV oversizing, intelligent EMS control, and multiple operation modes, it improves energy efficiency and system flexibility. The IP65 fanless design ensures quiet, durable performance in any environment.



- <10ms UPS Function for Uninterrupted Power
- 100% Unbalanced Load Support
- Flexible 125-800V Battery Input
- Smart Energy Management & Multiple Operating Modes
- 1.5x PV Oversizing
- IP65-rated Fanless Outdoor-ready Design

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TECHNICAL SPECIFICATION			
Model	SSE-HH8K-P3EU	SSE-HH10K-P3EU	SSE-HH12K-P3EU
INVERTER INPUT / OUTPUT(GRID)			
Rated Power (Input/Output)(kW)	12 / 8	14 / 10	16 / 12
Rated Voltage	380 / 400V a.c.,3W+N+PE		
Rated Frequency (Hz)	50 / 60		
Power Factor Range	0.8 leading~0.8 lagging		
Switch Time (ms)	<10		
Max.Continuous Current (Input/Output)(A a.c.)	17.4 / 11.6	20.3 / 14.5	23.2 / 17.4
Max.Output Overcurrent Protection (A a.c.)	400 / 60		
BATTERY			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range (V d.c.)	125 ~ 800		
Rated Battery Voltage (V d.c.)	200	250	300
Max.Charge Current (A d.c.)	40		
Max.Discharge Current (A d.c.)	40		
Reverse Connect Protection	Yes		
PV INPUT			
No.of MPPT Tracker / Strings	2 / 1+1		
Max.PV Input Power (kW)	12	15	18
Max.DC Voltage (V d.c.)	1000		
MPPT Voltage Range (V d.c.)	150~950		
Start-up Voltage (V d.c.)	200		
Max.Input Current / sring (A d.c.)	2*16		
Isc PV (Absolute Maximum) / sring (A d.c.)	2*24		
AC OUTPUT(EPS) / GENERATOR			
EPS Rated Output Voltage	380 / 400V a.c.,3W+N+PE		
EPS Rated Output Frequency (Hz)	50 / 60		
EPS Rated Output Active Power (kW)	8	10	12
EPS Rated Output Apparent Power (kVA)	8	10	12
EPS Rated Output Current (A a.c.)	11.6	14.5	17.4
Overload Capacity (Off Grid)	110% 30s / 120% 10s / 150% 0.2s		
EFFICIENCY			
MPPT Efficiency	99.90%		
Euro-efficiency	97.50%		
Max.Efficiency	98.00%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes		
Protection Degree	IP65		
Certifications	EN IEC 62109-1/2、EN IEC 62477-1、EN IEC 61000-6-1/3、RoHS 2.0、EN 50549-1&-10、Poland、Netherlands、Romania、Sweden、Greece、VDE-AR-N 4105、OVE R25、NA/EEA-NE7-CH、 UNE 217001&2/NTS 631 etc.		
Other Protection	Ground fault current monitoring, Earth fault detection, Residual current(RCD)Detection etc.		
GENERAL PARAMETER			
Storage Temperature	-25℃~+60℃		
Operating Temperature	-25℃ ~ +60℃ (Linely derating to 60% when exceed +45℃ ~ +60℃)		
Humidity	0%~100% (Non-condensing)		
Max.operating altitude (m)	4000 (>2000 Derating)		
Noise (dB)	<35		
Machine Dimensions(W*H*D) (mm)	530*600*210		
Machine Weight / N.W. (kg)	35		
DISPLAY & COMMUNICATION			
Display	LED+APP		
Interface	RS485 / WiFi / CAN / DRM (Optional:Bluetooth / LAN / Meter)		

- The AC voltage and frequency range can differ according to the grid standards of each country.
- Please note that all specifications are subject to change without prior notice.