SOSEN

SSE-HL8~12K-P3EU-SC

Three Phase | 3 MPPTs Hybrid Inverter (LV)

Designed for homes, this 8-12kW three-phase low-voltage hybrid inverter adapts to almost any roof with 3 MPPTs, so panels facing different directions can all work efficiently.
250A high-current battery charging and discharging, plus a 2x short-term overload capacity, means large appliances start smoothly. With IP66 protection for outdoor installation and WiFi plus App monitoring, you can manage your home energy system from anywhere.



- Up to 21A per String, Built for High-current PV Modules
- 3 MPPTs, Flexible for Multi-orientation PV Arrays
- <15 ms On-grid/Off-grid Switching for Backup Power
- Max. 250A Charge/Discharge for High-capacity Battery Cells
- 2x Off-grid Overload (<10s), Powering Heavy Loads with Ease
- IP66-rated with AC OVC III Protection Against Grid Surges

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TECHNICAL SPECIFICATION			
Model	SSE-HL8K-P3EU-SC	SSE-HL10K-P3EU-SC	SSE-HL12K-P3EU-SC
INVERTER INPUT/OUTPUT (GRID)			
Rated Power (kW)	16 / 8	20 / 10	24 / 12
Rated Voltage	380 / 400 V a.c., 3W+N+PE		
Rated Frequency (Hz)	50 / 60		
Power Factor Range	0.8 leading ~ 0.8 lagging		
Switch Time (ms)	＜15		
Current (Maximum Continuous) (A a.c.)	23.2 /11.6	29.0 /14.5	34.8 /17.4
BATTERY			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range (V d.c.)	40 ~ 60		
Max Charge Current (A d.c.)	180	220	250
Max Discharge Current (A d.c.)	180	220	250
Reverse Connect Protection	Yes		
PV INPUT			
No. of MPPT Tracker/Strings	3 / 1+1+1		
Max. PV Array Power (kW)	16	20	24
Max DC Voltage (V d.c.)	1000		
MPPT Voltage Range (V d.c.)	150 ~ 850		
Start-up Voltage (V d.c.)	180		
Max. Input Current (A d.c.)	3*21		
Isc PV (Absolute Maximum) (A d.c.)	3*31.5		
AC OUTPUT (EPS) / GENERATOR			
EPS Rated Output Voltage	380 / 400 V 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.)	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4
Overload Capacity (Off Grid)	2 times of rated power, 10s		
EFFICIENCY			
MPPT Efficiency	99.00%		
Euro-efficiency	96.50%		
Max. Efficiency	97.00%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes		
Protection Degree	IP66		
Other Protection	Over voltage, Over current, Over temperature, Short circuit, Active anti-islanding etc.		
GENERAL PARAMETER			
Storage Temperature	-25°C ~ +60°C		
Operating Temperature	-25°C ~ +60°C (>45°C Derating)		
Humidity	0-100% (Non-condensing)		
Altitude (m)	4000 (>2,000 Derating)		
Noise (dB)	<65		
Machine Dimension(W*H*D) (mm)	410*625*263		
Machine Weight / N.W. (kg)	39		
DISPLAY & COMMUNICATION			
Display	LCD + APP		
Interface	RS485 / CAN / WiFi / Bluetooth		

- 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.