

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

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		
Certifications	EN IEC 61000-6-1, EN IEC 61000-6-3, EN IEC 61000-3-12, EN IEC 61000-3-11		
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.