

SSE-HL6~10K-P1EU-SC

Single Phase | 2 MPPTs Hybrid Inverter (LV)

The 6~10kW low-voltage single-phase hybrid inverter offers residential users a cost-effective, reliable energy solution. Dual MPPTs and PV oversizing maximize solar yield, while <10 ms on/off-grid switching keeps essential loads powered. With high charge/discharge capability, wide-temperature operation, and full protection features, it ensures stable, long-term performance. The IP65-rated LCD, paired with a mobile app, provides real-time monitoring and control—giving homeowners efficiency, reliability, and peace of mind in one compact system.



1.5× PV Oversizing, Supports Battery Charging at Full Load



Dual MPPTs with 4 PV Strings, Up to 550V per String



<10 ms On-grid/Off-grid Switching for Backup Power



Max. 200A Charge/Discharge for High-capacity Battery Cells



150% Peak Load Capability for Demanding Applications



IP65-rated LCD, Supports Real-time Monitoring via App

TECHNICAL SPECIFICATION			
Model	SSE-HL6K-P1EU-SC	SSE-HL8K-P1EU-SC	SSE-HL10K-P1EU-SC
INVERTER INPUT/OUTPUT (GRID)			
Rated Power (kW)	6	8	10
Rated Voltage	220 / 230 / 240 V a.c., L+N+PE		
Rated Frequency (Hz)	50 / 60		
Power Factor Range	0.8 leading ~ 0.8 lagging		
Switch Time (ms)	< 10		
Current (Maximum Continuous) (A a.c.)	26.1	34.8	43.5
Max Output Overcurrent Protection	250 V a.c. / 100 A a.c.		
BATTERY			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range (V d.c.)	45 ~ 58		
Rated Battery Voltage (V d.c.)	51.2		
Max Charge Current (A d.c.)	135	180	200
Max Discharge Current (A d.c.)	135	180	200
Reverse Connect Protection	Yes		
PV INPUT			
No. of MPPT Tracker/Strings	2 / 2+2		
Max. PV Array Power (kW)	9	12	15
Max DC Voltage (V d.c.)	550		
MPPT Voltage Range (V d.c.)	120 ~ 500		
Start-up Voltage (V d.c.)	120		
Max. Input Current (A d.c.)	26 / 26		
Isc PV (Absolute Maximum) (A d.c.)	34 / 34		
AC OUTPUT (EPS) / GENERATOR			
EPS Rated Output Voltage	220 / 230 / 240 V a.c., L+N+PE		
EPS Rated Output Frequency (Hz)	50 / 60		
EPS Rated Output Active Power (kW)	6	8	10
EPS Rated Output Apparent Power (kVA)	6	8	10
EPS Rated Output Current (A a.c.)	21.6	34.8	43.5
Overload Capacity (Off Grid)	110%, 600s / 120%, 10s / 150%, 0.02s		
EFFICIENCY			
MPPT Efficiency	99.20%		
Euro-efficiency	96.50%		
Max. Efficiency	97.00%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes		
Protection Degree	IP65		
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 (Linely derating to 10% when exceed +45°C ~ +60°C)		
Humidity	0-95% (Non-condensing)		
Altitude (m)	2000 (>2,000 Derating)		
Noise (dB)	<60		
Machine Dimension(W*H*D) (mm)	361*545*222		
Machine Weight / N.W. (kg)	25		
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.