



All-in-One Hybrid Cabinet

Integrates PCS, EMS, and BMS; supports PV, battery, load, and grid for fullscenario energy storage



Multiple DC Inputs with High Current

4 MPPT-enabled DC inputs, each up to 110A, compatible with high-power PV and multiple strings



Wide DC Voltage Range

150V to 1000V DC range supports various PV and battery setups for greater design flexibility



Hot-Swappable Modular Design

Hot-swappable modules with compact footprint for easy O&M and high power density



Smart Versatility

Seamless on/off-grid switching, adaptable to self-consumption, power dispatch, backup power, and more



Flexible Expansion & Fast Grid Transfer

Supports up to 10 units in parallel, expandable to 2.5MW; seamless on/off-grid switch within 20ms



TECHNICAL SPECIFICATION	
Model	SSM-HH250K-P3
DC (PV)	
Max PV Voltage (V)	1000
MPPT Voltage Range (V)	150-950
MPPT Number	4
Max Input Current (A)	4×110
DC (BATTERY)	
Battery Voltage Range (V)	600-1000V (for 3P3W) / 680-1000V (for 3P4W)
Rated Battery Voltage (V)	830
Max Charging Current (A)	2×220
Max Discharging Current (A)	2×220
Battery Type	Lithium/Lead-Acid
AC (ON-GRID)	
Rated Power (kW)	250
Max Power (kVA)	275
Rated Voltage (V)	380 / 400
Rated Frequency (Hz)	50 / 60
Frequency Range (Hz)	45~55 / 55~65
Power Factor Range	1 Leading~1 Lagging
THDi	<3%
Rated Current (A)	360
AC (OFF-GRID)	
Rated Voltage (V)	380 / 400
THDu	<2% (Linear Load)
Rated Frequency (Hz)	50 / 60
Overload Capacity	110%
GENERAL PARAMETER	
Machine Dimensions (W*H*D) (mm)	750*1200*1950
Weight (kg)	700
Temperature Range (℃)	-35°C∼+55°C (Derating above 45°C)
Parallel Function	Yes,up to 10pcs
Protection Degree	IP20
Humidity	0~95%
Noise (dB)	<80
Altitude Derating (m)	≤4000
Cooling Method	Air-Cooled
DISPLAY & COMMUNICATION	
Display	LCD
BMS Communication	RS485, CAN
EMS Communication	RS485, TCP / IP
Certifications	IEC 62109; IEC 61000

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