

# SSM-HH125K-P3

125kW All-in-One Hybrid Inverter for C&I

Designed for commercial and industrial storage systems, the SSM-HH125K-P3 integrates PCS, EMS, and BMS into a compact unit delivering 125kW output. Supports up to 10 units in parallel for scalable capacity up to 1.25MW.



### All-in-One Hybrid Cabinet

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



## Wide DC Voltage Range

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



## Smart Versatility

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



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## Multiple DC Inputs with High Current

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



## Hot-Swappable Modular Design

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



## Flexible Expansion & Fast Grid Transfer

Supports up to 10 units in parallel, expandable to 1.25MW; seamless on/offgrid switch within 20ms

TECHNICAL SPECIFICATION	
Model	SSM-HH125K-P3
DC ( PV)	
Max PV Voltage (V)	1000
MPPT Voltage Range (V)	150-950
MPPT Number	2
Max Input Current (A)	2×110
DC ( BATTERY)	
Battery Voltage Range (V)	600-1000V (for 3P3W) / 680-1000V (for 3P4W)
Rated Battery Voltage (V)	830
Max Charging Current (A)	220
Max Discharging Current (A)	220
Battery Type	Lithium / Lead-Acid
AC (ON-GRID)	
Rated Power (kW)	125
Max Power (kVA)	137.5
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)	180
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*1377
Weight (kg)	300
Temperature Range (°C)	-35℃~+55℃ (Derating above 45℃)
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

• 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.