SOSEN

SSE-HH100~125K-P3EU

100~125kW PCS | 1000V | IP66

High-performance bidirectional PCS for utility, commercial, and industrial storage. With 580–1000V DC input, four-quadrant ±P/±Q control, and advanced HV protection, it ensures stable and flexible on/off-grid operation. Rugged IP66 enclosure and intelligent load management enhance reliability and safety.



HV DC Protection: Fuse + Relay

Quick fault isolation enhances safety and reduces fire and equipment damage risk

IP66 & Integrated HV Isolation

Sealed design with integrated high-voltage switch simplifies installation and supports safe maintenance

Wide DC Voltage Input (580–1000V)

Compatible with various air-cooled battery for flexible integration and better performance

Flexible for All Scenarios

Adaptable to various application needs including energy storage, peak shaving, and backup

4-Quadrant Active/Reactive Control

Enables ±P/±Q power adjustment with constant power, current, and voltage modes

Unbalanced Load & Off-Grid

Seamless transition with support for unbalanced 3-phase loads in off-grid or weak grid conditions

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TECHNICAL SPECIFICATION		
Model	SSE-HH100K-P3EU	SSE-HH125K-P3EU
Product Type	Power Conversion System (PCS)	
AC (ON-GRID)		
Rated Power (kW)	100	125
Rated Voltage	380 / 400 Va.c.,3W+N+PE	
Rated Frequency (Hz)	50	
Power Factor Range	1.0 leading~1.0 lagging	
Overload Capacity	110% long-term	
Max.Apparent Output Power (kVA)	110	137.5
AC Output Rated Current (A a.c.)	144	181
Max.Output Current (A a.c.)	159	200
THDi	<3%	
AC (OFF-GRID)		
Rated Output Voltage	380 / 400 Va.c.,3W+N+PE	
Rated Output Frequency (Hz)	50	
Max.Apparent Output Power (kVA)	110	137.5
THDU (Linear Load)	<3%	
DC (BATTERY)		
Battery Type	Lithium / Lead-acid	
Battery Voltage Range (V d.c.)	580 ~ 1000	
Max.Charging/Discharging Power (kW)	110	137.5
Max.Charging/Discharging Current (A d.c.)	159	200
GENERAL PARAMETER		
Cooling	Intelligent air cooling	
Relative Humidity	0~95% (Non-condensing)	
Operating Altitude (m)	4000 (>3000 ,Derating)	
Ingress Protection	IP66	
Certifications	IEC 62477-1、IEC 61000-6-2、IEC 61000-6-4、EN 50549-1&-10、VDE-AR-N 4105、VDE-AR-N 4110、VDE-AR-N 4120 、Finland VJV2024 and SJV2024、Sweden、UNE 217002/NTS 631、G99 etc.	
Ambient Temperature	-35℃~+55℃ (>+45℃,Derating)	
Protective Class	I	
Over Voltage Category	III (AC),II (DC)	
Inverter Topology	Non-isolated	
Machine Dimensions (W*H*D) (mm)	520*280*850	
Machine Weight/N.W. (kg)	85	
DISPLAY & COMMUNICATION		
Communication Interface	RS485 / CAN / Ethernet	

- 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.