

## SSE-BH100~125K-P3EU

100~125kW PCS | 1000V | IP20

The SSE-BH100~125K-P3EU is a high-efficiency bidirectional power conversion system designed for indoor cabinet integration. With a wide DC input range of 580–1000V and support for multiple operating modes (CP/CV/CC), it enables flexible deployment across industrial and commercial storage systems. Its four-quadrant active/reactive power control, fast charge/discharge switching, and unbalanced load support make it ideal for dynamic grid applications.



### Compact Cabinet Integration

Slim form factor designed for standard indoor cabinets and centralized battery racks



### Wide DC Voltage Range 580–1000V

Compatible with a broad range of air-cooled battery configurations for flexible system design



### Four-Quadrant Power Control

$\pm P/\pm Q$  full-range regulation supports grid interaction and industrial load response



### Flexible for All Scenarios

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



### Unbalanced Load & Off-Grid

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



### Smart Energy Management

Optimizes local energy use with intelligent scheduling and time-of-use control

TECHNICAL SPECIFICATION		
Model	SSE-BH100K-P3EU	SSE-BH125K-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	IP20	
Certifications	IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, EN 50549-1&-10,GB/T 34120,GB/T 34133	
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)	440*265*700	
Machine Weight/N.W. (kg)	65	
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.