SOSEN

SSE-HH200~235K-P3EU

200～235kW PCS | 1500V | IP66

The SSE-HH200~235K-P3EU is a next-generation 1500V outdoor bidirectional PCS designed for utility-scale and C&I storage systems. It offers robust support for 300+Ah battery cells. The IP66-rated enclosure ensures safe operation in harsh environments, while advanced three-level topology, wide DC input range, and intelligent grid functions make it a powerful solution for high-efficiency and future-proof energy storage deployments.



Future-Proof: 300+Ah Cell Ready

Optimized for high-capacity cells to ensure long-term flexibility

1500V HV System Architecture

Higher throughput, lower BOS cost, greater efficiency for utility-scale deployments

3-Level Topology for Higher Efficiency

Advanced design significantly reduces switching losses and enhances system reliability

All-Weather IP66 Outdoor Design

Fully sealed enclosure with integrated HV switchgear for harsh outdoor environments

Four-Quadrant ±P/±Q Control

Meets dynamic grid support needs, including reactive power compensation, voltage/frequency regulation

Flexible for All Scenarios

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

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TECHNICAL SPECIFICATION			
Model	SSE-HH200K-P3EU	SSE-HH215K-P3EU	SSE-HH235K-P3EU
Product Type	Power Conversion System (PCS)		
AC (ON-GRID)			
Rated Power (kW)	200	215	235
Rated Voltage	400 / 690 V a.c.,3W+N+PE		
Rated Frequency (Hz)	50 / 60		
Power Factor Range	1.0 leading~1.0 lagging		
Max.Apparent Output Power (kVA)	220	236.5	258.5
AC Output Rated Current (A a.c.)	167.3	180.0	196.6
Max.Output Current (A a.c.)	184.0	197.9	216.3
THDi	<3%		
DC (BATTERY)			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range (V d.c.)	1000 ~ 1500		
Max.Charging/Discharging Power (kW)	220	236.5	258.5
Max.Charging/Discharging Current (A d.c.)	204	220	240
GENERAL PARAMETER			
Cooling	Intelligent air cooling		
Relative Humidity	0~95% (Non-condensing)		
Operating Altitude (m)	4000 (>3000 ,Derating)		
Ingress Protection	IP66		
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)	600*300*900		
Machine Weight/N.W. (kg)	100		
DISPLAY & COMMUNICATION			
Communication Interface	RS485 / Ethernet / CAN		

- 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.