SOSEN

SSE-HH20~30K-P3EU-SD

Three Phase I 3 MPPTs Hybrid Inverter (HV)

The SOSEN 20-30 kW hybrid inverter is designed for home and small commercial use. Three MPPTs with 200% PV oversizing maximize solar energy yield, even with limited roof space. With up to 140A charge/discharge current, it supports high-rate batteries for quicker battery storage, ensuring you're ready for peak demand or backup needs. Reliable, efficient, and scalable—power you can count on.



- Up to 140A Charge/Discharge for High-rate Batteries
- 3 MPPTs with 200% PV Oversizing for Higher Yield
- Wide 150~850V MPPT Range for Complex Rooftop
- AC-coupled Ready for Easy System Retrofit and Upgrade
- < 20ms UPS-level Switching for Uninterrupted Power
- 100% 3-phase Unbalanced for Complex Loads

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TECHNICAL SPECIFICATION				
Model	SSE-HH20K-P3EU-SD	SSE-HH25K-P3EU-SD	SSE-HH29.9K-P3EU-SD	SSE-HH30K-P3EU-SD
INVERTER INPUT / OUTPUT(GRID)				
Rated Power (kW)	20	25	29.9	30
Rated Voltage (V a.c.)	380 / 400,3W+N+PE			
Rated Frequency (Hz)	50 / 60			
Power Factor Range	0.8 leading~0.8 lagging			
Max.Continuous Current (Input/Output)(A a.c.)	60 / 34	76 / 42	90.6/ 50.3	91 / 50.5
Max.Output Overcurrent Protection (A a.c.)	45 / 43.5	57 / 54	68 / 65	68.3 / 65.3
BATTERY				
Battery Type	Lithium / Lead-acid			
Battery Voltage Range (V d.c.)	150 ~ 800			
Rated Battery Voltage (V d.c.)	150	180	214	215
Max.Charge Current (A d.c.)	140			
Max.Discharge Current (A d.c.)	140			
Reverse Connect Protection	Yes			
PV INPUT				
No.of MPPT Tracker / Strings	3 / 2+2+2			
Max.PV Input Power (kW)	40	50	59.8	60
Max.PV Input Voltage (V d.c.)	1000			
MPPT Voltage Range (V d.c.)	150~850			
Start-up Voltage (V d.c.)	200			
Max.Input Current / sring (A d.c.)	6*18			
Isc PV (Absolute Maximum) / sring (A d.c.)	6*20			
AC OUTPUT(EPS) / GENERATOR				
EPS Rated Output Voltage (V a.c.)	380 / 400, 3W+N+PE			
EPS Rated Output Frequency (Hz)	50 / 60			
EPS Rated Output Active Power (kW)	20	25	29.9	30
EPS Rated Output Apparent Power (kVA)	20	25	29.9	30
EPS Rated Output Current (A a.c.)	30 / 29	38 / 36	45.3 / 43.3	45.5 / 43.5
Overload Capacity (Off Grid)	150% 0.2s			
EFFICIENCY				
MPPT Efficiency	99.90%			
Euro-efficiency	97.50%			
Max.Efficiency	98.00%			
PROTECTION & FEATURE				
Insulation Monitoring	Yes			
Residual Current Monitoring	Yes			
Parallel Function	Yes			
Protection Degree	IP66			
Other Protection	Ground fault current monitoring, Earth fault detection, Residual current(RCD)Detection etc.			
GENERAL PARAMETER				
Storage Temperature	-25℃~+60℃			
Operating Temperature	-25℃ ~ +60℃ (Linely derating to 60% when exceed +45℃ ~ +60℃)			
Humidity	0%~100% (Non-condensing)			
Max.operating altitude (m)	4000 (>2000 Derating)			
Noise (dB)	<65			
Machine Dimensions(W*H*D) (mm)	490*660*270			
Machine Weight / N.W. (kg)	54			
DISPLAY & COMMUNICATION				
Display	LCD+APP			
Interface	RS485 / WiFi / CAN / DRM (Optional:Bluetooth / LAN / Meter)			

- 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.