SOSEN

SSA-HL1.2~3.6K-P1EU

Single Phase | Hybrid Inverter(Off-Grid)

The SSA-HL1.2~3.6K-P1EU, ranging from 1.2kW to 3.6kW, are perfect for residential and indoor applications, delivering efficient energy conversion and flexible storage solutions. With an integrated MPPT controller and equalize charge control, they enhance battery performance and lifespan. Supporting up to 5kW PV input power, they seamlessly combine PV and utility loads. The optional WiFi allows for easy remote monitoring and management.



- Integrated MPPT controller
- 5kW maximum PV input power
- Using low-voltage batteries is safer
- Combined PV and utility load
- Optional WiFi for remote monitoring
- Work with or without battery

TECHNICALSPECIFICATION			
Model	SSA-HL1K2-P1EU	SSA-HL2K-P1EU	SSA-HL3K6-P1EU
AC INPUT			
Rated Voltage (V a.c.)	208 /220 / 230 / 240 , L+N+PE		
Rated Frequency (Hz)	50 / 60		
Maximum Continuous Current(Bypass mode)(A a.c.)	10	17	20
INVERTER OUTPUT			
Rated Power (kW)	1.2	2	3.6
Rated Voltage (V a.c.)	208 / 220 / 230 / 240 , L+N+PE		
Power Factor	1		
Wave Form	Pure Sine Wave		
Switch Time (ms)	<10 (Typical)		
Inverter Efficiency (Peak)	90.5%@12V d.c.	91%@12V d.c.	92.7%@24V d.c.
Current (Maximum Continuous) (A a.c.)	5.2	8.7	15.6
Maximum Output Overcurrent Protection	102%~110% 1min / 110%~130% 10s		
BATTERY			
Battery Type	Lithium / Lead-acid		
Rated Battery Voltage (V d.c.)	12	12	24
Battery Voltage Range (V d.c.)	10~15	10~15	21~30.2
Max.Charge Current (A d.c.)	120	100	100
PV INPUT			
No of MPPT Tracker / Strings	1 / 1		
Max. PV Array Power (kW)	1	3	5
Max. DC Voltage (V d.c.)	125	450	500
MPPT Voltage Range (V d.c.)	15~100	30~400	40~450
Start-up Voltage (V d.c.)	20	40	60
MPPT Maximum Charge Current (A d.c.)	60	100	100
Max. Input Current (A d.c.)	14	18	18
Isc PV (Absolute Maximum) (A d.c.)	15	22	22
PROTECTION & FEATURE			
Parallel Function	NO		
Protection Degree	IP20, Indoor only		
Certifications	EN IEC 62109-1/2、EN IEC61000-6-1/3、RoHS 2.0		
Other Protection	Over voltage Protection; Over load protection; Short circuit protection; Over temperature protection; Surge protection		
GENERAL PARAMETER			
Storage Temperature	-15°C~+60°C		
Operating Temperature	-10°C~+50°C	-10°C~+60°C	-10°C~+50°C
Humidity	5%～95% (Non-condensing)		
Operating Altitude (m)	4000 (>1000 Derating)		
Noise (dB)	<50		
Machine Dimensions (W*H*D) (mm)	236*352*91	264*339*104.5	285*435*99
Machine Weight / N.W. (kg)	3.85	4.55	6.5
DISPLAYAND COMMUNICATION			
Display	LCD Display		
Interface	RS485 / CAN / Dry Contact / WiFi (Optional)		

- Please note that all specifications are subject to change without prior notice.