

SL-A SERIES HYBRID INVERTER



Model	SUN-SL-HP5K-A2		SUN-SL-HP6K-A2	
Battery Input Data				
Battery Type			Li-ion	
Battery Voltage Range (V)			40~60	
Max. Charge/Discharge Current (A)	100/100		120/120	
Communication			CAN	
PV String Input Data				
Max. PV Input Power (W)	7500		9000	
Max. PV Input Voltage (V)			600	
Rated PV Input Voltage (V)			360	
Start-up Voltage (V)			120	
MPPT Voltage Range (V)			100~550	
Max. PV Input Current (A)			16/16	
Max. DC Short Circuit Current (A)			20/20	
No.of MPPT Trackers			2	
No.of Strings Per MPPT			1/1	
AC Input/Output Data(On-grid)				
Rated AC Output Power (W)	5000		6600	
Max. AC Output Apparent Power (VA)	5500		6600	
Rated AC Voltage (V)			220V/230V, L/N/PE	
Rated AC Frequency (Hz)			50/60	
Rated AC Output Current (A)	22.7/21.7		27.3/26.1	
Max. AC Output Current (A)	25/23.9		30/28.7	
Power Factor			0.8 leading to 0.8 lagging	
THDi (@Rated Power)			THDi<3% (Rated Power)	
Max. AC Power From Grid (VA)	10000		10000	
Max. Current From Grid (A)	45.5/43.5		45.5/43.5	
AC Output Data(Back-up)				
Rated Output Power (W)	5000		6000	
Max. Output Apparent Power (VA)	5500		6600	
Peak Output Apparent Power (VA)	"6000@60s 7500@10s"		"7200@60s 9000@10s"	
Rated Output Voltage (V)			230V, L/N/PE	
Rated Output Frequency (Hz)			50/60	
Rated Output Current (A)	21.7		26.1	
Max Output Current (A)	23.9		28.7	
Switch Time (ms)			<4ms	
THDv (@Linear Load)			THDv<3% (Linear load)	
Efficiency				
Euro Efficiency			96.6%	
Max. Efficiency			97.2%	
MPPT Efficiency			>99%	
General Data				
User Interface			LED & APP	
Communication With BMS			CAN, RS-485	
Communication With Portal			BT+WIFI+LAN/4G(Optional)	
Dimension (W×H×D mm)			462*511*208	
Weight (kg)			23.8	
Opeartion Conditions				
Operating Temperature Range (°C)			-25~60°C	
Storage Temperature (°C)			-25~85°C	
Operation Relative Humidity			0~95%	
Max. Operation Altitude(m)			3000m	
Ingress Protection			IP66	
Cooling Concept			Natural Cooling	
Installation Style			Wall-mounted	
Noise Emission (dB)			<30 dB	
Warranty			10 Years	
Certifications and Standards				
OSafety Standard			IEC / EN 62109-1/-2	
EMC Standard			IEC /EN61000-6-1, IEC /EN61000-6-2, IEC /EN61000-6-3, IEC /EN61000-6-4, IEC /EN 61000-3-2/12, IEC /EN 61000-3-3/11	
Grid Connection Standard			AS/NZS 4777.2, CEI 0-21, RD1699, UNE217002, NTS631, G98, G99, EN50549-1	
Protection				
Integrated	Anti-islanding Protection,PV Input Reverse Polarity Protection,Insulation Resistor Detection,Residual Current Monitoring,Overcurrent Protection,Short Circuit Protection,Overvoltage Protection,Overtemperature Protection			
Surge Protection	DC Type II / AC Type III			

SUN-SL-HP5K/6K-A2

Single-phase Low-voltage Hybrid Inverter



Supports DC couple and AC couple to upgrade existing photovoltaic plants into energy storage systems.



The daily battery charging and discharging logic is customized to meet the user's different daily consumption habits.



Supports 4ms and off-grid switching time.



The IP66 protection level can be used in multiple scenarios.