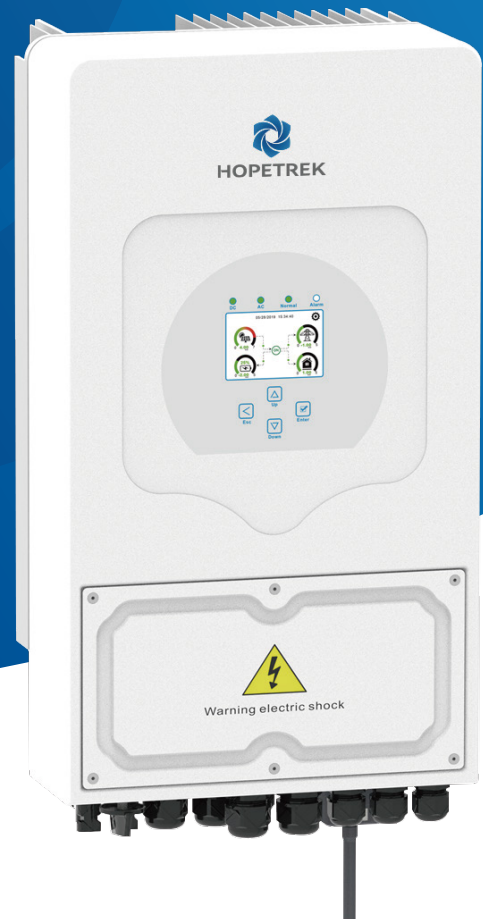




HOPETREK

SL-A Series Hybrid Inverter

ESS-SL3K6/5K/6K



Key Features:

- Supports DC couple and AC couple to upgrade existing photovoltaic plants into energy storage systems.
- Supports up to 16 units in parallel for both on-grid and off-grid operation.
- Slash Your Energy Bills
Smart Peak Shaving and Optimal Charging Schedules.
- 6 time periods for battery charging/discharging; 4ms rapid switching to ensure critical loads remain powered without interruption.
- 48V low-voltage battery with built-in isolation transformer for enhanced system safety.
- Smart Load/AC Couple Applications
Intelligently customizable for multi-scenario solutions; the critical load output interface can accommodate the connection of all electrical devices.
- The 6KW model has a maximum charging/discharging current of 135A, with a rated output power of 6KW in off-grid mode.

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Specifications

Model	ESS-SL3K6	ESS-SL5K	ESS-SL6K
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40~60		
Max. Charging Current (A)	90	120	135
Max. Discharging Current (A)	90	120	135
PV String Input Data			
Max. DC Input Power (Wp)	4680	6500	7800
Max. DC Input Voltage(V)	500		
Rated DC Input Voltage(V)	370		
Start-up Voltage (V)	125		
MPPT Voltage Range	150-425		
Max. PV Input Current(A)	13+ 13		
Max. Short-Circuit Current(A)	17+17		
No. of MPP Trackers / No. of Strings per MPP Tracker	2/1+1		
AC Output Data			
Rated AC Output and UPS Power (W)	3600	5000	6000
Max. AC Output Apparent Power(VA)	3960	5500	6600
Rated AC Output Current(A)	16.4/15.7	22.7/21.7	27.3/26.1
Max. AC Output Current(A)	18.0/17.2	25.0/23.9	30.0/28.7
Max. Continuous AC Passthrough (A)	35		40
Peak Power (off-grid)	2 time of rated power, 10 S		
Power Factor	0.8 leading to 0.8 lagging		
Rated Output Voltage and Frequency	L/N/PE 220/230Vac; 50/60Hz		
Total Harmonic Distortion (THDi)	<3%		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		
Certifications and Standards			
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
General Data			
Operating Temperature Range (°C)	-45~+60°C, >45°C derating		
Cooling	Natural cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	20.5		
Size (mm)	330W x 580H x232D		
Protection Degree	IP65		

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