

EHI-4~6K-SL

Energy Storage System

4kW / 5kW / 6kW



Smart

 Intelligent remote monitoring
 Plug and play design


Reliable

 IP65 protection rating
 Durable long-term performance


Stable

 Passed strict testing
 Works well in tough conditions


Elegant

 Streamlined design
 Whisper-quiet operation


Model	EHI-4K-SL	EHI-5K-SL	EHI-6K-SL
PV String Input			
Max. DC Voltage		550V	
Nominal Voltage		360V	
MPPT Voltage Range		80V-540V	
Start Voltage		100V	
Number of MPPT Tracker		2	
Strings Per MPPT Tracker		1	
Max. Input Current Per MPPT		15A	
AC Output (Grid)			
Nominal AC Output Power	4kW	5kW	6kW
Max. AC Output Power	4.4kVA	5.5kVA	6.6kVA
Nominal AC Voltage		230V ±20%	
AC Grid Frequency Range		50 /60 ± 5 Hz	
Max. Output Current	19A	24A	29A
Max. Input Current	35A	43.5A	48A
Power Factor (cosΦ)		±0.8	
THDi		<3%	
Battery Input			
Battery Type		LFP (LiFePO4)	
Nominal Battery Voltage		48V	
Charging Voltage Range		42V-59V	
Max. Charging Current		100A	
Max. Discharging Current		100A	
Charging Strategy for Li-ion Battery		Self-adaption to BMS	

Model	EHI-4K-SL	EHI-5K-SL	EHI-6K-SL
AC Output (Backup)			
Max. Output Apparent Power	4kVA	5kVA	6kVA
Peak Output Apparent Power	5kVA,10sec	6kVA,10sec	7kVA,10sec
Nominal Output Voltage	230V ±20%		
Nominal Output Frequency	50/60Hz±0.2%		
Output THDv (@Linear Load)	<3%		
Efficiency			
Max. PV Efficiency	98.00%		
Euro. PV Efficiency	97.50%		
Protection			
DC Switch	Yes		
Anti-islanding Protection	Yes		
Output Over Current	Yes		
DC Reverse Polarity Protection	Yes		
String Fault Detection	Yes		
AC/DC Surge Protection	Yes		
Insulation Detection	Yes		
AC Short Circuit Protection	Yes		
General Specifications			
Dimensions (LxWxH)	250mm*550mm*1650mm		
Weight	140kg		
Operating Temperature Range	-25 °C ~ +60 °C		
Noise (dB)	≤25dB		
Cooling Type	Natural		
Max. Operation Altitude	3000m		
IP Class	IP65		
Topology	Transformerless		
Communication	WiFi/4G/USB/CAN/RS485		
Display	LCD and App		
Certification & Standard	EN 62109-1/EN 62109-2/EN 62477-1/IEC 61000-6-1/IEC 61000-6-3/CEI 0-21/ UNE 217001/UNE 217002/VDE0126/IEC 61727/IEC 62116/EN 50549-1/G98/ G99/AS 4777.2		

Battery Data			
Physical		Operation	
Battery type	LFP (LiFePO4)	Max. Charge/Discharge Current	100/100A
System Weight	54kg	Max. Charge/Discharge Power	5.0/5.0kW
Dimensions (LxWxH)	550mm*195mm*550mm	Operating Temperature Range	-28~55°C
IP Protection	IP65	Humidity	0~95%(no condensation)
Warranty	10 years		
Electrical		BMS	
Energy Capacity	5.3kWh	Communication	RS485/CAN
Usable Capacity	5.1kWh	Certificate	
Depth of Discharge (DoD)	80%	Certification & Standard	IEC/EN 62619,IEC63056, IEC61000-6-1, 1EC61000-6-3,UN3480
Nominal Voltage	51.2V		
Operating Voltage Range	40~58V		
Cycle Life	>6000*cycles		