



System Specification

EAHI6KSL Series						
System components						
Number of battery modules	1	2	3	4	5	6
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Battery system model	5KWH					
Number of inverter	1					
Inverter mode	EAHI-6000-SL-S					
Rated power	6000W					
Dimensions(WxHxD)(mm)	600x778x305	600x998x305	600x1218x305	600x1438x305	600x1658x305	600x1878x305
Weight(kg)	93	143	193	243	293	343
Noise level at 1 m	<25dB					
Cooling type	Natural cooling					
Maximum altitude	4000m					
Operating temperature	-20℃~+58℃					
Operating humidity	0~100%RH(Non-condensing)					
Display	LED and app					
Installation method	Floor-mounted					

Lithium-ion Battery Module

Battery Model	5KWH
Cell technology	LiFePO4
Energy capacity	5.12kWh
Maximum expandable number	6
Scalable capacity range	5.12kWh~30.72kWh
DOD	Max. 100% DOD(settable)
Maximum charging power	3.84KW
Maximum discharging power	5.02KW
Max. charging current	75A
Max. discharge current	98A
Operating temperature	-20~+58℃
Humidity	0~100%RH(Non-condensing)
Communication interface	485 and CAN
Connection method	Floor-mounted
IP rating	IP66
Certification	IEC 62619, IEC 60730, UN 38.3, IEC 62040-1, ROHS2.0, VDE 2510-50

Hybrid Inverter Specification

INVERTER MODEL	EAHI-6000-SL-S
PV input parameter	
Maximum input power	8000W
Maximum input voltage	550Vdc
Rated input voltage	360Vdc
Starting voltage	100Vdc
Minimum operating voltage	150Vdc
MPPT operating voltage	100~540Vdc
PV maximum input current	16A/16A
PV maximum short circuit current	24A/24A
Quantity of independent MPPT	2
Number of input strings per MPPT	1/1
Battery input parameter	
Battery type	Lithium battery
Battery voltage range	42~58Vdc
Maximum charging current	100A
Maximum discharge current	120A
Charging curve	3 Stages/Equalization
Lithium battery charging strategy	BMS self-adaption
AC input parameter (grid side)	
Grid type	Single phase
Input voltage range	184~276Vac
Input frequency range	50±5Hz/60±5Hz
Maximum input current	40A
AC output parameter (grid side)	
Rated output power	6000W
Maximum apparent output power	6000VA
Grid system mode	1/N/PE
Rated output voltage	220Vac/230Vac
Rated output frequency	50Hz/60Hz
Rated output current	27.3A/26.1A
Maximum output current	27.3A
Power factor	>0.99(0.8 lead~0.8 lag)
Total current harmonics	≤3%(rated power)
AC output parameter (back-up side)	
Rated output power	6000W
Maximum apparent output power	6000VA
Grid system mode	1/N/PE
Rated output voltage	230Vac(208/220/240Vac settable)
Rated output frequency	50Hz/60Hz
Rated output current	27.3A/26.1A
Voltage harmonic	≤3% (linear load)
Switching time	≤10ms
Efficiency	
Maximum efficiency	97.8%
MPPT efficiency	99.9%
Protection	
Comprehensive	Grid over-voltage protection, grid over-frequency protection, grid overload protection, over-temperature protection, anti-islanding protection, insulation resistance detection, residual current monitoring unit, output over-current protection, output short-circuit protection, surge protection
Surge protection	DC Type II/AC Type III
Standard	
Safety regulation	IEC/EN 62109-1/-2, AS62109
EMC	EN 61000-6-1/-2/-3/-4
Grid-tied	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, NRS097-2-1, EN 50549-1 G99/1-9:2022, ETSI EN303645+PSTI, C10/11:2021, XP C 15-712-3:2019, ELOT EN 50549-1:2019, PEA
Other	
Topology	High frequency isolation(to batteries)
IP rating	IP66
Operating temperature range	-25~60℃(derated at >45℃)
Cooling method	Natural cooling
Maximum altitude	4000m
Noise level at 1 m	≤25dB
Installation method	Floor-mounted
Dimensions(WxHxD)(mm)	600×530×305
Weight(kg)	36.4