

SINGLE-PHASE RESIDENTIAL ALL-IN-ONE ENERGY STORAGE SOLUTION

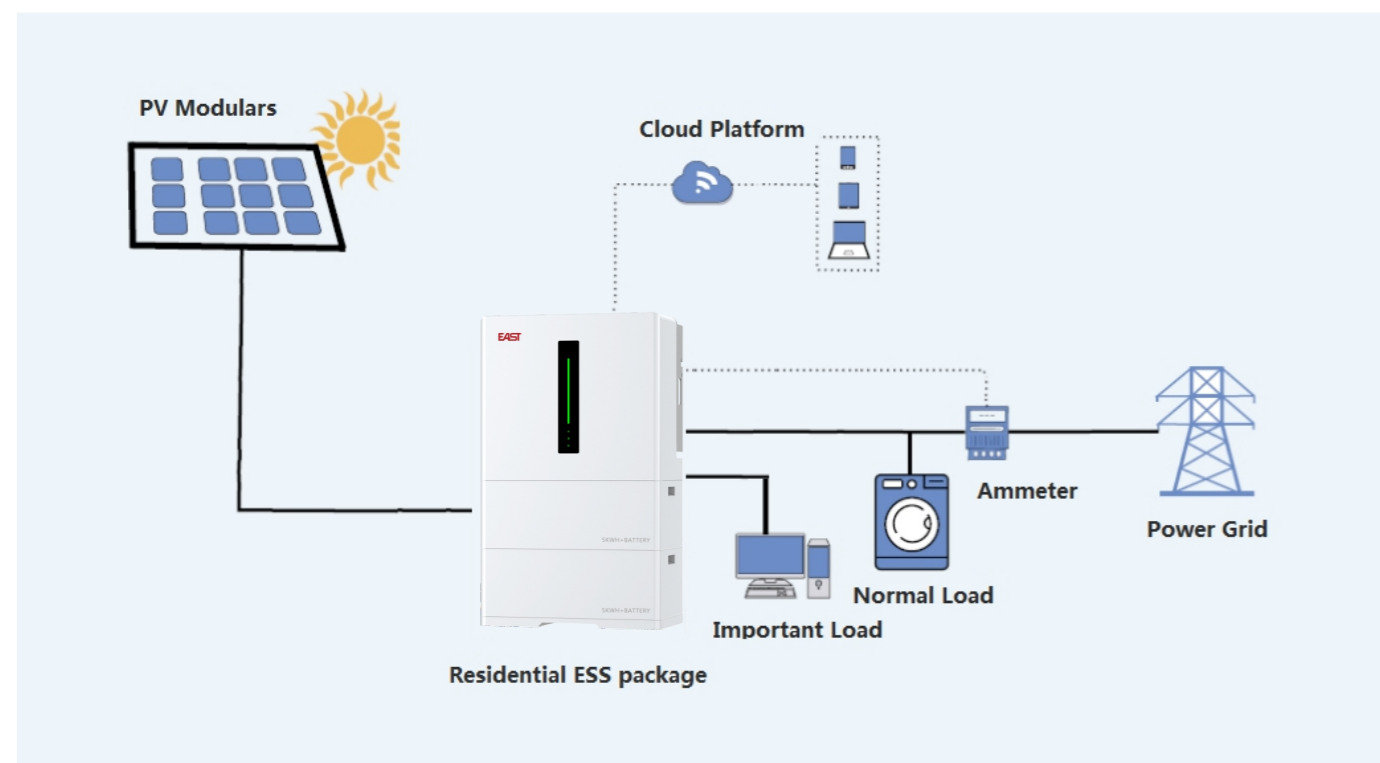
EAHI6KSL Series,G2



Features

- Integrated streamlined case design with elegant appearance
- IP66 stainless steel enclosure, waterproof and dustproof
- Stacking design for easy installation
- Module plug-and-play, automatic recognition
- Flexible expansion of battery capacity
- Flexible setting of multiple working modes according to preferences
- Seamless switching of emergency mode to ensure that loads do not power down
- Security and stability, 24-hour intelligent monitoring

System Principle Diagram



MODEL	EAHI6KSL Series					
	1	2	3	4	5	6
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(W x H x D)(mm)	600x778x305	600x998x305	600x1218x305	600x1438x305	600x1658x305	600x1878x305
Weight(kg)	93	143	193	243	293	343
Noise	<25dB					
Cooling type	Natural cooling					
Maximum altitude	4000m					
Operating temperature	-20°C ~ +58°C					
Operating humidity	0~100%RH (Non-condensing)					
Display	LED and app					
Installation method	Floor-mounted					
INVERTER MODEL	EAHI-6000-SL-S					
Inverter parameter						
Maximum input power	8000W					
Maximum open-circuit 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					
Input string of each 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 parameters (grid side)						
Grid type	Single phase					
Input voltage range	184~276Vac					
Input frequency range	50±5Hz / 60±5Hz					
Maximum input current	40A					
AC output parameters (grid side)						
Rated output power	6000W					
Maximum apparent output power	6000VA					
Output 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 parameters (back-up side)						
Rated output power	6000W					
Maximum apparent output power	6000VA					
Output system mode	1/N/PE					
Rated output voltage	230Vac (208/220/240Vac settable)					
Rated output frequency	50Hz / 60Hz					
Rated output current@230V	26.1A					
Maximum output current	28.8A					
Voltage harmonic	≤3% (linear load)					
Switching time	≤20ms					
Efficiency						
Maximum efficiency	97.8%					
MPPT efficiency	99.9%					
Protection						
Comprehensive	Grid over/under voltage protection, grid over/under 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, AS4777.2, NRS097-2-1, EN 50549-1					
Other						
Topology	High frequency isolation (to batteries)					
IP protection grade	IP66					
Operating temperature range	-25~60°C (derated at >45°C)					
Cooling method	Natural cooling					
Maximum altitude	4000m					
Noise	≤25dB					
Installation method	Floor stacking type					
Dimensions(W x H x D)(mm)	600×530×305					
Weight(kg)	36.4					
BATTERY MODEL	5KWH					
General						
Cell technology	LiFePO4					
Energy capacity	5.12kWh					
Usable capacity	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°C					
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					