












Single Phase Home Energy Solution


-  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


HYBRID INVERTER

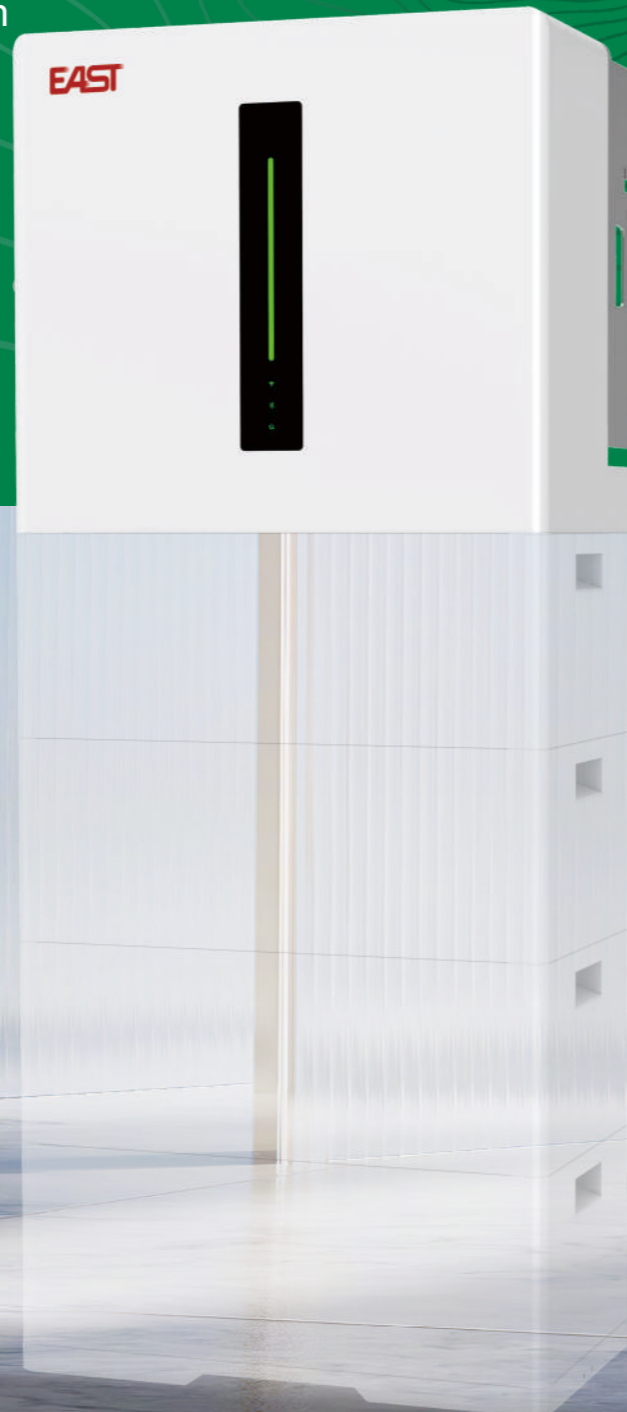
6.0kW Single Phase

 Integrated streamlined case design with elegant appearance

 IP66 system protection rating

 Flexible setting of multiple working modes according to preferences





 Seamless switching of emergency mode to ensure that loads do not power down



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, AS4777.2, 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°C (derated at >45°C)	
Cooling method	Natural cooling	
Maximum altitude	4000m	
Noise	≤25dB	
Installation method	Floor-mounted	
Dimensions (WxHxD)(mm)	600×530×305	
Weight (kg)	36.4	

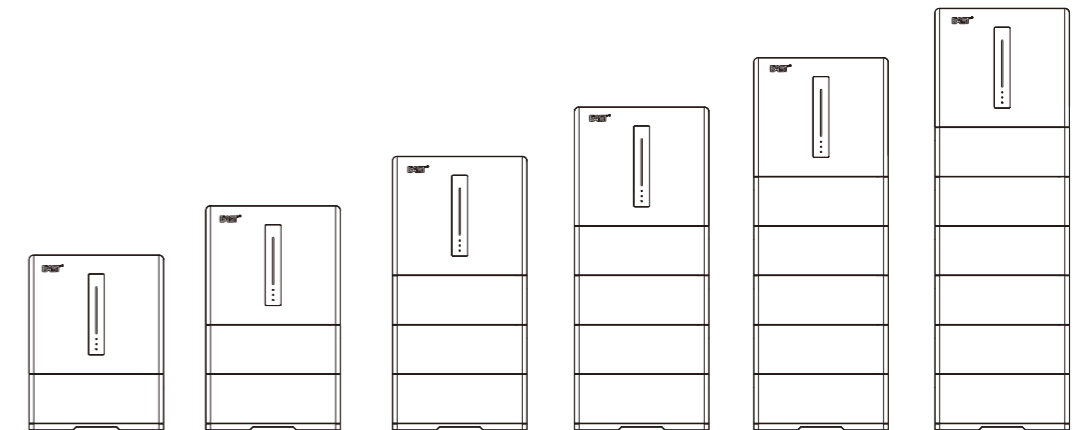
LOW VOLTAGE BATTERY

-  Stacking design for easy installation
-  Module plug-and-play, automatic recognition
-  IP66 system protection rating
-  Flexible expansion of battery capacity



Lithium-ion Battery Module

BATTERY MODEL	5KWH
General	
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°C
Humidity	0~100%RH (Non-condensing)
Communication interface	485 and CAN
Connection method	Floor-mounted
Enclosure type	IP66
Certification	IEC 62619, IEC 60730, UN 38.3, IEC 62040-1, ROHS2.0, VDE 2510-50



System Specification

MODEL	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	<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					