

Residential Hybrid Inverter

EAHI6KSL-S

Single phase | All-in-one | 314Ah Cell





314Ah battery cell, built-in DCDC optimizer, high cycle life and long lifespan



Cell level, package level and system level multiple protections



Stacking design for easy installation
Flexible expansion of battery capacity



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



IP66 stainless steel enclosure, waterproof and dustproof



Module plug-and-play, automatic recognition

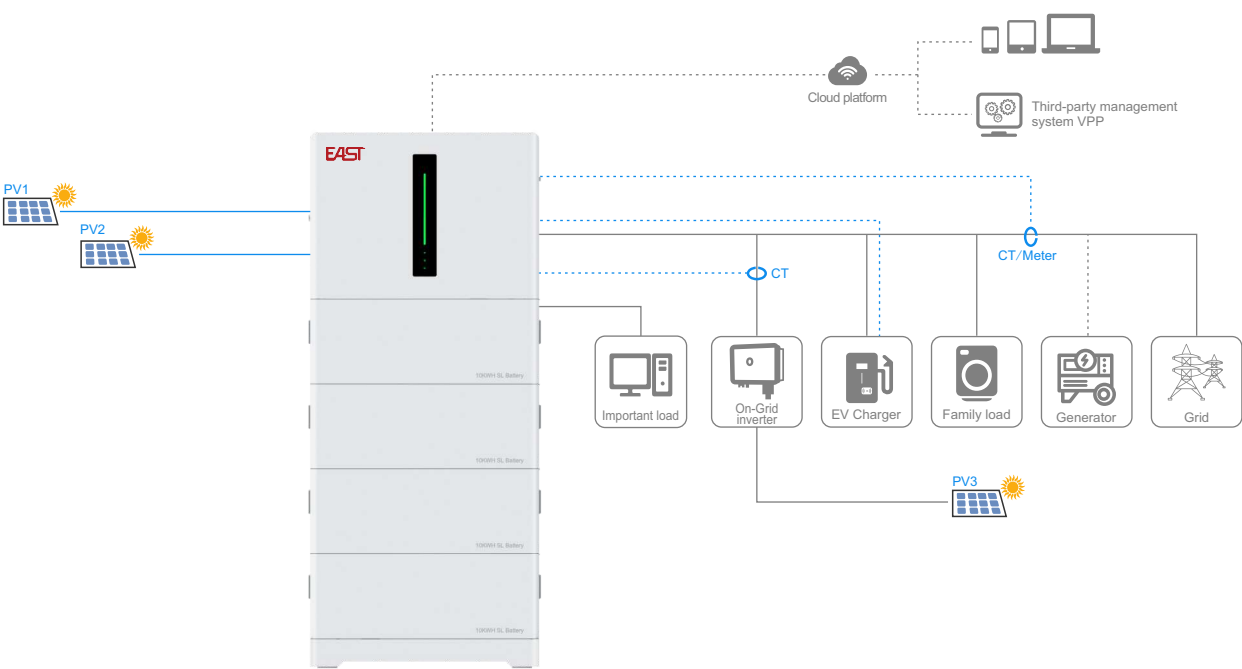


Security and stability, 24-hour intelligent monitoring



Supports independent input of photovoltaic inverters and generators, supports AC coupling of charging stations and various photovoltaic storage systems

Typical application



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Hybrid inverter specification

MODEL	EAHI6KSL-S
PV input parameter	
Max. input power	8000W
Max. input voltage	550Vdc
Starting voltage	150Vdc
Max. input current	16/16A
Short circuit current	24/24A
Number of input strings per MPPT	1/1
AC input/output parameters(grid side)	
Input voltage range	184~276Vac
Input frequency range	50±5Hz/60±5Hz
Max. input current	40A
Rated output power	6000W
Max. 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
Power factor	>0.99(0.8 lead~0.8 lag)
AC output parameters(back-up side)	
Rated output power	6000VA/6000W
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
THDv	≤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
Inverter standard	
LVD	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+PST1, C10/11:2021, XP C 15-712-3:2019, ELOT EN 50549-1:2019, PEA
Inverter other parameters	
Dimensions(W×H×D)(mm)	700×530×405
Weight(kg)	41.4

Battery specification

MODEL	EHB48314D10S1P
Cell technology	LiFePO4
Battery voltage	51.2Vdc
Max. expandable number	4
Energy capacity	10kWh
Cell type	314Ah
Scalable capacity range	10kWh~40kWh
DOD	Max. 100% DOD(settable)
Max. charging power	5KW@1 module, 6kW@>1 module
Max. discharging power	5KW@1 module, 6kW@>1 module
Max. charging current	100A
Max. discharge current	105A@1 module, 120A@>1 module
Communication interface	485 and CAN
Certification	IEC 62619, IEC 63056, UN 38.3
Dimensions(W×H×D)(mm)	700×250×405
Weight(kg)	83
Base parameters	
Dimensions(W×H×D)(mm)	700×81.5×405
Weight(kg)	4.8

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