

Residential Hybrid Inverter

EAHI6KSL-S

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



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314AH battery cell, built-in DCDC optimizer, high cycle life and long lifespan
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Cell level, package level and system level multiple protections
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Stacking design for easy installation
Flexible expansion of battery capacity
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Seamless switching of emergency mode to ensure that loads do not power down
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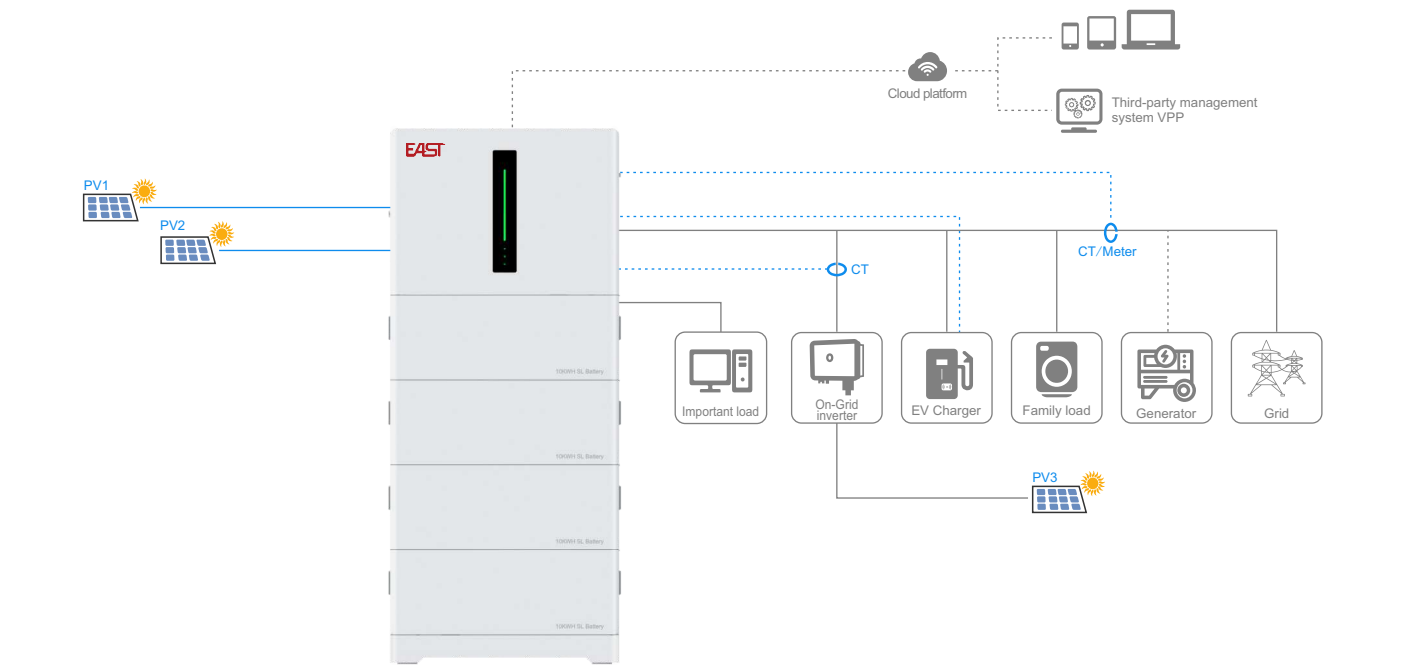
IP66 stainless steel enclosure, waterproof and dustproof
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Module plug-and-play, automatic recognition
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Security and stability, 24-hour intelligent monitoring
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Supports independent input of photovoltaic inverters and generators, supports AC coupling of charging stations and various photovoltaic storage systems

Typical application



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