

Residential Energy Storage System iStorageE1 Series

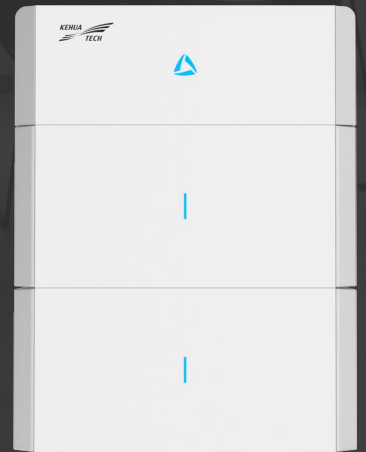
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Stock Code
002335.SZ

Kehua Tech

Residential Energy Storage System

Single-phase ESS iStorageE1 Series 3600~6000



Product Features



Independent

- Built-in EMS function with multi-mode operation (achieves energy independence)
- Real uninterruptible power supply, switching time $<10\text{ms}^1$
- Stronger back up power up to 7800W



Safe

- Physical and electrical dual isolation
- Modular fire protection integration
- AFCI function integration (optional)



Simple

- All-in-one design
- Modular installation & Quick plug connector
- Multiple battery expansion & Multiple system expansion



Smart

- Multi-point real-time monitoring, adaptive SOC management
- PACK-level battery management, active balance of charging and discharging
- Intelligent energy management with weather forecast function

^{*1} Except for countries with special requirements.

System Specification

Items	iStorageE1 3600 Series	iStorageE1 5000 Series	iStorageE1 6000 Series
System components			
Inverter model	iStorageE1 3600	iStorageE1 5000	iStorageE1 6000
Number of Inverter		1	
Battery system model		iStorageE B5-S1	
Number of battery module		1~4	
General			
System capacity		5~20kWh	
Rated system power	3.6kW	5kW	6kW
Dimension (W*H*D)	800*1090*240mm/31.49* 42.91*9.45in (two battery modules, with foundation)		
Noise		<25dB	
Cooling type		Natural cooling	
Altitude		3000m/9842ft (Derating above 2000m//6561ft)	
Operating temperature		-20~50°C/-4~122°F	
Recommended operating temperature		15~30°C/59~86°F	
Operating humidity		0~100%RH (Non-condensing)	
Display		LED & APP	
Installation method		Floor or Wall-mounted (optional)	

*Specifications are subject to change without prior notice.

Hybrid Inverter Specification

Items	iStorageE1 3600	iStorageE1 5000	iStorageE1 6000
DC Input (PV)			
Recommended Max. PV input power		9.0kWp	
Max. PV input voltage		580Vdc	
No. of MPPTs		2	
No. of PV strings per MPPT		1/1	
Max. PV input current		15A/15A	
Max. short current		18.75A/18.75A	
MPPT voltage range		100~550Vdc	
Starting voltage		100Vdc	
DC (PV) switch		Yes	
DC Input and Output (Battery)			
Battery voltage range		360~500Vdc	
Max. charge/discharge current		25A	
AC Input and Output (On-grid)			
Rated AC output power	3.6kW	5.0kW	6.0kW
Rated AC output voltage		230Vac	
Grid voltage range		180~270Vac	
Max. output current	15.6A	21.7A	26.1A
Max. input current	31.2A	43.4A	52.2A
Rated grid frequency		50/60Hz	
Grid frequency range		45~55/55~65Hz	
Power factor		>0.99 (rated power)	
Adjustable power factor		0.8 (leading)~0.8 (lagging)	
THDi		<3% (rated power)	
AC Output (Back-up)			
Rated AC output voltage		230Vac	
Rated output frequency		50/60Hz	
Rated output power	3.6kW	5.0kW	6.0kW
Peak output power	4.68kW, 60s 5.4kW, 30s	6.5kW, 60s 7.5kW, 30s	7.8kW, 60s
Switch time ¹		<10ms	
Efficiency			
Max. efficiency		97.70%	
European efficiency		97.10%	
General			
Weight		17kg/37.47lb (including side plates)	
Dimension (W*H*D)		800*280*233mm/31.49*11.02*9.17in (including side plates)	
Protections	AFCl(optional), Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, DC/AC surge protection, AC short-circuit protection		
Enclosure type		IP65	
Communication interface		Portal-WiFi (standard)/4G (optional), RS485	
Compliance	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-2/3, EN IEC 61000-3-11, EN 61000-3-12, VDE-AR-N 4105, VDE V 0124-100, G98 ² , G99 ² , XP C15-712-3, VDE V 0126-1-1, EN 50549-1, CEI 0-21, AS 4777.2 ² , NTS SEPE:V2.1, UNE 217002, UNE 217001		

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¹ Except for countries with special requirements.

² Certification is available in Q3.

Lithium-ion Battery Module

iStoragE B5-S1

Product Features



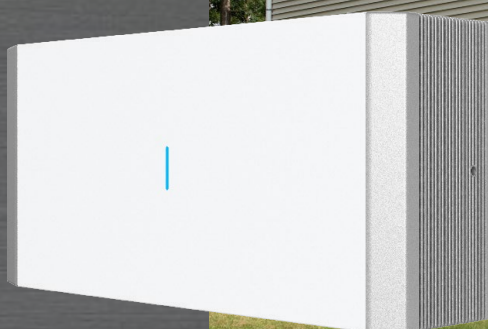
Safe and reliable



Intelligent and flexible



Easy O&M



Items	iStoragE B5-S1
General	
Cell technology	LiFePO ₄
Energy capacity	5kWh
Usable capacity ¹	5kWh
Scalability	4
Scalable capacity range	5~20kWh
DOD	Max. 100 % DOD (settable)
Rated power	4kW
Voltage range	360~500Vdc
Maximum charge current	11.11A
Maximum discharge current	11.11A 13.33A, 10s
Dimension (W*H*D)	800*380*238mm/31.49*14.6*9.37in (including side plates)
Weight	51kg/112.43lb (including side plates)
Operating temperature	-20~50°C/-4~122°F
Recommended operating temperature	15~30°C/59~86°F
Humidity	0~100%RH (Non-condensing)
Altitude	3000m/9842ft (Derating above 2000m/6561ft)
Cooling type	Natural cooling
Display	LED
Communication interface	RS485, CAN
Topology	Isolated
Connection method	Floor or Wall mounted (optional)
Enclosure type	IP65
Certification	IEC 62619, IEC 60730, UN 38.3, IEC 62040-1

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*1 Test conditions: 25°C, 100 % depth of discharge (DOD), 0.2C charge & discharge.

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