

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 <10ms
- 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

Hybrid Inverter Specification

Items	iStorageE1 3600	iStorageE1 5000	iStorageE1 6000
DC Input (PV)			
Max. input PV power		9000W	
Max. input DC voltage		580Vdc	
Min. input DC operating voltage range		100~120Vdc	
No. of MPPTs		2	
No. of PV strings per MPPT		1/1	
Max. MPPT input current		15A dc/15A dc	
Max. MPPT short circuit current		18.75A dc /18.75A dc	
MPPT voltage range		100~550Vdc	
Input start-up voltage		120Vdc	
DC (PV) switch		Yes	
DC Input and Output (Battery)			
Max. Battery input voltage		500Vdc	
Battery voltage range		360~500Vdc	
Max. charge/discharge current		25A dc	
AC Input and Output (On-grid)			
Rated output power	3600W	5000W	6000W
Rated output apparent power	3600VA	5000VA	6000VA
Rated output voltage		230Vac	
Grid voltage range		180~270Vac	
Rated output current	15.6A ac	21.7A ac	26.1A ac
Max. input current	31.2A ac	43.4A ac	52.2A ac
Rated grid frequency		50Hz	
Grid frequency range		45~55Hz	
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		50Hz	
Rated output power	3600W	5000W	6000W
Peak output power	4680W, 60s 5400W, 30s	6500W, 60s 7500W, 30s	7800W, 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)	
Operating temperature range		-20~50°C/-4~122°F	
Recommended operating temperature		15~30°C/59~86°F	
Operating humidity		0~100%RH (Non-condensing)	
Maximum altitude		3000m/9842ft (Derating above 2000m/6561ft)	
Protections	AFCl(optional), Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, DC/AC surge protection, AC short-circuit protection		
Installation method	Wall-mounted		
Cooling type	Natural cooling		
Noise	<25dB		
IP rating	IP65		
Display	LED & APP		
Communication interface	Portal-WiFi (standard) /4G (optional), Meter-RS485		
Certification	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, EN50549-1, CEI0-21, AS4777.2, NTS SEPE:V2.1, UNE 217002, UNE 217001		

*Specifications are subject to change without prior notice.

*1: Except for countries with special requirements.

*2: Certification is available in Q3.

Contact Details

Xiamen Kehua Digital Energy Tech Co., Ltd.

Room 208-38, Hengye Building, No.100 Xiangxing Road, Torch High-tech Zone

(Xiang'an) Industrial Zone Xiamen, China 361006

Tel: 0592-5160516

Email: service@kehua.com

