

Residential Energy Storage System

Single-phase ESS iStoragE1 Series 3600~6000



Product Features



Independent

- Built-in EMS function with multi-mode operation
- Real uninterruptible power supply, switching time <math><10\text{ms}</math>
- 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



Smart

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

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		1~8	
General			
Cell technology		LiFePO4	
System capacity		5~40kWh	
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	2000m/6561ft		
Operating temperature	-20~50°C/-4~122°F		
Recommended operating temperature	15~30°C/59~86°F		
Storage temperature	-10~45°C/14~113°F		
Operating humidity	0~100%RH		
Display	LED & APP		
Installation method	Floor or Wall-mounted (optional)		
Communication interface	Portal-WiFi (standard) /4G (optional), Meter-RS485		

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 (Battery)			
Battery voltage range		360~500Vdc	
AC Input and Output (On-grid)			
Rated AC output power	3.6kW	5.0kW	6.0kW
Rated AC output voltage		220/230/240Vac	
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		220/230/240Vac	
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		<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)		
Enclosure type	IP65		
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, G99, XP C15-712-3, VDE V 0126-1-1, EN50549-1, CEI0-21, AS4777.2, PO12.2, UNE 217002, UNE 217001		

*Specifications are subject to change without prior notice.