

# Residential Energy Storage System

## Single-phase ESS iStoragE1 Series 3600~6000

iStoragE1 series is an all-in-one solar battery system which consist of hybrid inverter and battery modules. Owners can build a new home energy storage system with iStoragE1, which can realize the maximum self-use of solar energy and reduce electricity bills. It is also very suitable for areas need backup power.



### Product Features



#### Simple

- All-in-one design, modular installation
- 1~8 batteries flexible expansion



#### Safe

- Physical and electrical dual isolation
- Modular fire protection integration



#### Smart

- Independent battery management, mix old and new batteries
- Built-in ECU function

### System Specification

Items	iStoragE1 3600 Series	iStoragE1 5000 Series	iStoragE1 6000 Series
<b>System components</b>			
Inverter model	iStoragE1 3600	iStoragE1 5000	iStoragE1 6000
Number of Inverter		1	
Battery system model		iStoragE B5-S1	
Number of battery module		1~8	
<b>General</b>			
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	< 35dB		
Cooling type	Natural cooling		
Altitude	3000m/9842ft (Derating above 2000m/6561ft)		
Operating temperature <sup>1</sup>	-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.  
\*1 Charge: 0~50°C. Discharge: -20~50°C.

### Hybrid Inverter Specification

Items	iStoragE1 3600	iStoragE1 5000	iStoragE1 6000
<b>DC Input (PV)</b>			
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		120Vdc	
DC (PV) switch		Yes	
<b>DC Input and Output (Battery)</b>			
Battery voltage range		360~500Vdc	
Max. charge/discharge current		25A	
<b>AC Input and Output (On-grid)</b>			
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		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)	
<b>AC Output (Off-grid)</b>			
Rated AC output voltage		230Vac	
Rated output frequency		50Hz	
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 <sup>1</sup>		<10ms	
<b>Efficiency</b>			
Max. efficiency		97.70%	
European efficiency		97.10%	
<b>General</b>			
Weight	17kg/37.47lb (including side plates)		
Dimension (W*H*D)	800*280*233mm/31.49*11.02*9.17in (including side plates)		
Protections	AFCI(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, XP C15-712-3, VDE V 0126-1-1, EN 50549-1, CEI 0-21, NTS SEPE:V2.1, UNE 217002, UNE 217001		

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\*1 Except for countries with special requirements.