

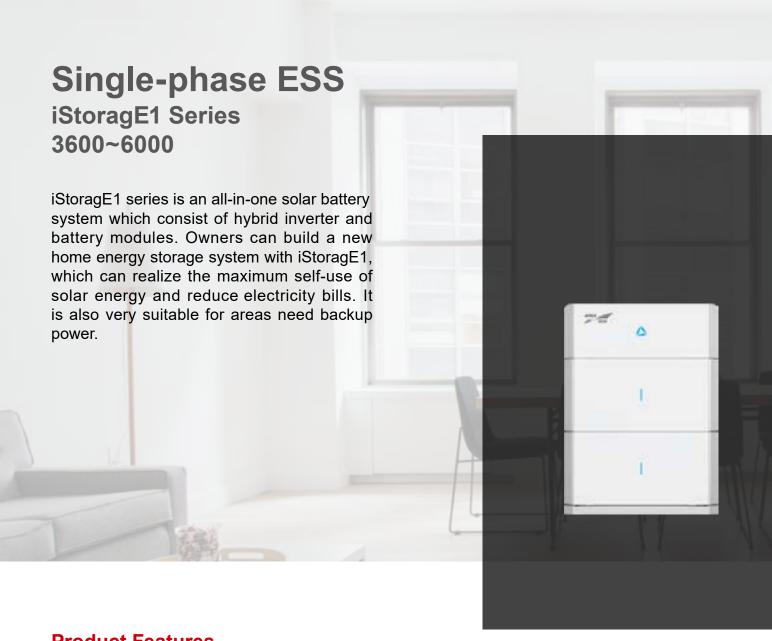
# iStoragE1

All-in-one Residential

**Energy Storage System** 



## **Residential Energy Storage System**



#### **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
System components			
Inverter model	iStoragE1 3600	iStoragE1 5000	iStoragE1 6000
Number of Inverter	1		
Battery system model	iStoragE B5-S1		
Number of battery module	1~8		
General			
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)		

<sup>\*</sup>Specifications are subject to change without prior notice. \*1 Charege: 0~50°C. Discharge: -20~50°C.

## **Hybrid Inverter Specification**

Items	iStoragE1 3600	iStoragE1 5000	iStoragE1 6000
DC Input (PV)			
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		
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		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 (Off-grid)			
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	
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	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		

<sup>\*</sup>Specifications are subject to change without prior notice.
\*1 Except for countries with special requirements.

## **Lithium-ion Battery Module**



Items	iStoragE B5-S1		
General	100000000		
Cell technology	LiFePO4		
Battery energy capacity	5kWh		
Battery usable capacity 1	5kWh		
Scalability	8		
Scalable capacity range	5~40kWh		
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 <sup>2</sup>	-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		
Compliance	IEC 62619, IEC 60730, UN 38.3, IEC 62040-1		

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<sup>\*</sup> Specifications are subject to change without prior notice.
\*1 Test conditions: 25°C, 0.2C charge & discharge, 100 % depth of discharge (DOD).
\*2 Charege: 0~50°C. Discharge: -20~50°C.