

# Hybrid Inverter

## 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	iStoragE1 3600	iStoragE1 5000	iStoragE1 6000
<b>DC Input (PV)</b>			
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	
<b>DC Input and Output (Battery)</b>			
Max. Battery input voltage		500Vdc	
Battery voltage range		360~500Vdc	
Max. charge/discharge current		25A dc	
<b>AC Input and Output (On-grid)</b>			
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)	
<b>AC Output (Back-up)</b>			
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 <sup>1</sup>		<10ms	
<b>Efficiency</b>			
Max. efficiency		97.70%	
European efficiency		97.10%	
<b>General</b>			
Weight		16.3kg	
Dimension (W*H*D)		800*280*233mm/31.49*11.02*9.17in (including side plates)	
Operating temperature range		-25~60°C	
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 <sup>2</sup> , G99 <sup>2</sup> , 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.

\*Country of manufacturer: Made in China.

\*Type of compatible battery: Lithium

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