

Residential Energy Storage System iStorageE Series

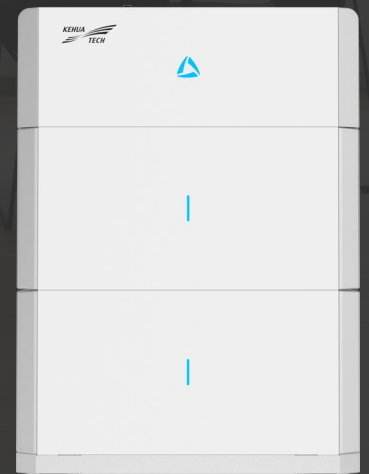
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Stock Code
002335.SZ

Kehua Digital Energy

Residential Energy Storage System

iStoragE1 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

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 | 2~8 | 2~8 |
| General | | | |
| Battery type | | LFP | |
| System capacity | 5~40kWh | 10~40kWh | 10~40kWh |
| Rated system power | 3.6kW | 5kW | 6kW |
| Dimension (W*H*D) | 800*710*240mm (one battery module, with bracket) 800*280*232mm (inverter), 800*380*200mm (battery module) | 800*1090*240mm (two battery modules, with bracket) 800*280*232mm (inverter), 800*380*200mm (battery module) | |
| Weight | | 18kg (inverter), 55kg (battery module) | |
| Ingress protection | | IP65 (outdoor/indoor) | |
| Surge protection | | DC Type II & AC Type II | |
| Noise level | | <25dB | |
| Cooling type | | Natural cooling | |
| Altitude | | 2000m | |
| Operating temperature | | -25°C~60°C (inverter), -20°C~50°C (battery module) | |
| Recommended operating temperature | | 15°C~30°C | |
| Storage temperature | | -20°C~45°C | |
| Operating humidity | | 0~100%RH | |
| Display | | LED & APP | |
| Installation method | | Floor or Wall-mounted (optional) | |
| Communication interface | | Portal-WiFi, Meter-RS485, DRM | |
| Certification | | IEC62109-1/-2, EN61000-6-2/-3, EN62109-1/-2, AS4777.2, VDE4105, VDE 0124-100, EN50549-1, CEI 0-21, G98, G99, UTC C15-712-3, VDE0126-1-1:2006+A1, VFR 2019 | |

Inverter Specification

| Items | iStorageE1 3600 | iStorageE1 5000 | iStorageE1 6000 |
|--------------------------------------|---------------------------|-----------------------------|-----------------|
| DC Input (PV) | | | |
| Recommended Max. PV input power | | 9.0kWp | |
| Max. PV input voltage | | 580Vdc | |
| Max. PV input current | | 15A/15A | |
| Max. short current | | 18.75A/18.75A | |
| No. of MPPTs | | 2 | |
| No. of PV strings per MPPT | | 1/1 | |
| MPPT voltage range | | 100~550Vdc | |
| Starting voltage | | 100Vdc | |
| DC (PV) switch | | Yes | |
| DC Input (Battery) | | | |
| Battery voltage range | | 360~500Vdc | |
| Max. charge/discharge current | | 16.7A/21.7A | |
| 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 | | 180~280Vac | |
| Max. output current | 15.6A | 21.7A | 26.2A |
| Max. input current | 31.2A | 43.4A | 52.4A |
| 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 Input (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% | |

*Specifications are subject to change without prior notice.

Battery System

iStoragE B5-S1 Series

Product Features

Safe and reliable

Intelligent and flexible

Easy O&M



| Items | iStoragE B5-S1 |
|-----------------------------------|--|
| General | |
| Battery type | LFP |
| Energy capacity | 5kWh |
| Scalability | 8 |
| Scalable capacity range | 5~40kWh |
| DOD | 100% |
| Rated power | 4kW |
| Rated voltage | 380Vdc |
| Voltage range | 360~500Vdc |
| Maximum charge current | 11.11A |
| Maximum discharge current | 11.11A 13.33A,10s |
| Dimensions | 380*800*200mm |
| Weight | 55kg |
| Operating temperature | -20~50°C |
| Recommended operating temperature | 15~30°C |
| Storage temperature | -10~45°C |
| Humidity | 0~100%RH |
| Altitude | 2000m |
| Cooling type | Natural cooling |
| Display | LED |
| Communication interface | RS485, CAN |
| Topology | Isolated/Non-isolated |
| Connection method | Floor or Wall mounted |
| Certification | UL1973, IEC 62619, IEC 60730, UN38.3, UL1998 |

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