

# KAIXENTEC

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## SAMURAI SERIES

Residential Energy Storage – Smart. Scalable. Resilient.

51.2V-100Ah  
25.6V-100Ah



The Samurai Series offers a modular rack-based energy storage platform built with lithium iron phosphate technology—designed for seamless integration with residential solar, backup power, and hybrid systems. Engineered for safety and long life, the system features intelligent battery management with real-time monitoring, broad inverter compatibility, and scalable performance to match evolving energy needs. Certified to CE, IEC62619, UKCA, UL1973, UN38.3, ensuring full compliance with international safety standards

### Next-Level System Intelligence

Advanced BMS with balancing and pre-charge logic ensures smooth operation and battery protection at all times. Optional remote performance insights and firmware updates via cloud integration keep your system always up to date.

### Modular Design for Evolving Needs

- Available in 24V or 51.2V versions.
- Stack or mount up to 32 units in parallel.
- Scale easily from 2kWh to over 160kWh as your energy demands grow.

### Broad Compatibility & Versatile Installation

Works seamlessly with most hybrid or off-grid inverters for home energy storage. Multiple mounting options—wall, floor, stack, cabinet, or rack—fit any room or utility set-up.

### Built to Perform

- Over 6000 cycles at 90% DoD
- Optional heating add-on for cold climates
- Compact 3U rack height and under 50 kg for easy handling.



# Samurai Series Technical Parameters



| Model                         | 51.2V-100A                                                                | 25.6V-100A                                                  |
|-------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Battery data</b>           |                                                                           |                                                             |
| Nominal voltage               | 51.2 V                                                                    | 25.6 V                                                      |
| Nominal capacity              | 100 Ah                                                                    |                                                             |
| Nominal energy @0.2C          | 5.12 kWh                                                                  | 2.56 kWh                                                    |
| Usable energy @0.2C           | 4.92 kWh                                                                  | 2.46 kWh                                                    |
| Operation voltage range       | 48 V ~ 56 V                                                               | 24 V ~ 28 V                                                 |
| Charge voltage                | 56 V                                                                      | 28 V                                                        |
| Recommend charging current    | 50 A                                                                      |                                                             |
| Max. charging current         | 100 A                                                                     |                                                             |
| Recommend discharging current | 50 A                                                                      |                                                             |
| Max. discharging current      | 100 A                                                                     |                                                             |
| Communication                 | RS485 / CAN                                                               |                                                             |
| Cycle life                    | ≥ 6 000 cycles, @25°C , @0.2C , @90%DOD, @60%EOL                          |                                                             |
| Weight                        | ≈ 46 kg (101.4 lbs)                                                       | ≈ 25 kg (55.1 lbs)                                          |
| Dimensions (W*H*D)            | 482*133.5*460 mm (18.9*5.2*18.1 inch)                                     | 441*133.5*276 mm (17.3*5.2*10.8 inch)                       |
| Operation temperature range   | Charge 0~50°C (32~122°F)<br>Discharge -10~50°C (14~122°F)                 | Charge -10~50°C (14~122°F)<br>Discharge -20~50°C (-4~122°F) |
| Relative humidity             | 5% ~ 90%, No condensation                                                 |                                                             |
| Install altitude              | ≤ 4 000 m                                                                 |                                                             |
| Installation                  | Wall mounted/ Floor mounted/ Stack mounted/ Rack mounted/ Cabinet mounted |                                                             |



\* The actual product may differ slightly from the pictures.

\* The specifications are subject to change without prior notice.