

C&I ESS
CFE-XH 314



Advanced Technology

- AI - Powered 3 - Level Scalable BMS AI - driven two-tier architecture expandable to three levels, enabling intelligent cell - to-system monitoring and busbar coordination.
- 47+ Inverter Brand Compatibility seamless integration via CAN bus across diverse energy storage systems.
- High - Rate Charge / Discharge + Active Balancing ensures long-term battery reliability.
- Proprietary Thermal Balance System $\pm 3^{\circ}\text{C}$ cell temperature control helps improve temperature uniformity and supports long service life.

Flexible configuration

- **Modular Stack Design** frameless, plug - and-play stacking with flexible 64 kWh to 921 kWh capacity for all applications.
- **High - Capacity Single Rack** holds up to 15 packs in series, rated at 241 kWh to meet C&I energy demands.
- **Industrial BMS with Auto-Voltage Matching** ensures safe and stable operation with flexible series / parallel configuration.
- **8,000 Cycles** designed for daily cycling to deliver strong ROI on C&I storage projects.

Convenient installation

- **Ergonomic Rack Design** max height of 1.8m ensures safe, accessible maintenance without overhead operation.
- **Sleek Modular Build** modern minimalist design with stacking ease lowers installation and maintenance costs.
- **Plug - and- Play Connectivity** quick connectors with auto - configuration enable simple setup, no special skills needed.
- **Crane - Free Installation** can be assembled manually, reducing complexity and cost across all site types.

Localized Technical Support

- **End - to - End Service Support** from design and construction to operation and recycling – a complete service cycle for maximizing project value.
- **Hybrid Training System** combined online and offline training covering product knowledge, operation skills, and maintenance for rapid client readiness.
- **Secure & Tracked Logistics** professional warehousing and door - to - door delivery ensure timely, safe arrival with full - chain traceability.
- **Localized Technical Network** on - site installation, maintenance, and troubleshooting supported by a reliable warranty for consistent system performance.

Model	CFE-XH 314											
Battery Module Qty in series	4	5	6	7	8	9	10	11	12	13	14	15
Nominal Voltage	204.8 V	256 V	307.2 V	358.4 V	409.6 V	460.8 V	512 V	563.2 V	614.4 V	665.6 V	716.8 V	768 V
Voltage Range	185.6 - 230.4 V	232 - 228 V	278.4 - 345.6V	324.8 - 403.2 V	371.2 - 460.8 V	417.6 - 518.4 V	464 - 576 V	510.4 - 633.6 V	556.8 - 691.2 V	603.2 - 748.8 V	649.6 - 806.4 V	696 - 864 V
Product Name	Stacked PDU											
PDU Model	CFE - PDU 1000 - 200 - B											
Installation Method	Racks											
Humidity	0 – 95 % RH (non-condensing)											
Nominal Voltage	1000 Vdc											
Max. Rated Current	200 A											
Size	440 × 837 × 225 mm											
Product Name	Stacked PACK											
Battery Type	LiFePO4											
Battery Model	CFE - PA51 - 314 - B											
Total Energy	16.07 kWh											
Nominal Voltage	51.2 V											
Capacity	314 Ah											
Size (mm)	440 × 837 × 225 mm											
System Name	Stackable energy storage system											
Max. Charging Current	150 A											
Max. Discharge Current	200 A											
Communication Method	CAN / RS485 / Wi-Fi											
Charge Operating Temperature	0 to 45 °C											
Discharge Operating Temperature	-15 to 45 °C											
Humidity	0 – 95 % RH (non-condensing)											
Altitude	≤2000m											
Installation Method	Stack											
Cycle Life	≥8000 Cycles (@25 ± 2 °C, 0.5C / 0.5C, 80%DoD)											