All-In-One Energy Storage Solution for C&I Applications

DELTerra C

- All-in-one commercial and industrial solution integrating PCS, battery, and unit controller
- Skid-based design that eliminates the need for underground trenching to streamline deployment
- Flexible configuration options from 125 kW and 261 kWh per cabinet, scalable up to 10 units in parallel

Commercial Buildings

EV Charging Stations

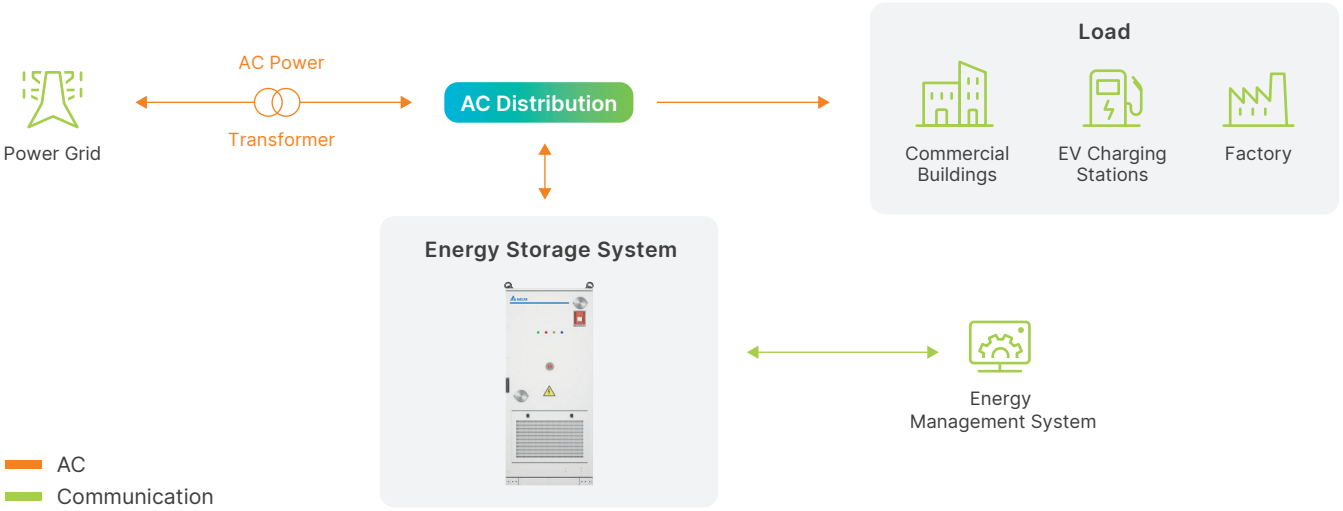
Factories

DELTerra C: A Compact, Scalable, and Safe Choice

DELTerra C is an all-in-one energy storage solution tailored for C&I applications. It integrates battery packs, a power conditioning system (PCS), a liquid cooling system, and a unit controller, offering a single-cabinet capacity of 125 kW and 261 kWh, with a compact footprint of less than 1.5 m², delivering exceptional energy density. Supporting up to 10 parallel cabinets, it can be used in diverse scenarios.

Featuring a skid-mounted design, integrated liquid cooling system, multi-level fire protection and support for multiple applications, DELTerra C ensures simplified installation, robust safety, and flexible configurations, making it the premier choice for C&I energy storage.

System Architecture



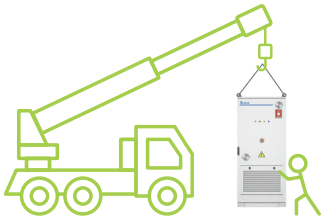
Feature Highlights

Easy and Quick Installation

With its forklift-ready and skid design, the system eliminates the need for complex hoisting and underground trenching for cabling, significantly reducing on-site construction time and labor costs.

Traditional

Hoisting with a crane



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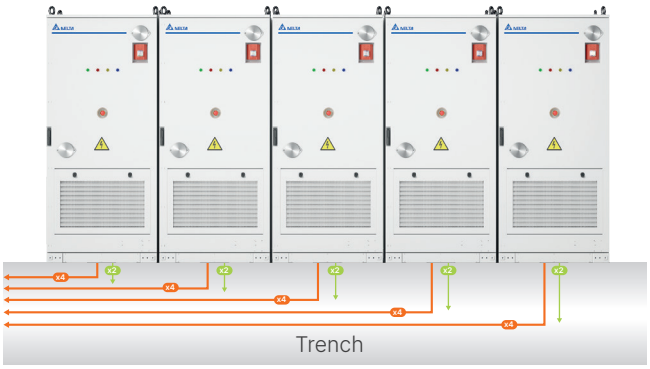
Lifting with a forklift

Traditional

Underground trenching is required for cabling



DELTerra C

Skid design eliminates the need for underground trenching

Superior Quality

Our advanced energy storage system, featuring 314 Ah LFP cells, liquid cooling, and multi-level fire protection, delivers superior performance, safety, and long-term reliability.

LFP 314 Ah Cell

- Longer life cycle
- High energy density
- UL 9540A

Multi-Level Fire Safety

Intelligent Management

With an integrated unit controller, the system streamlines device-level coordination, enabling flexible site planning and effortless maintenance—freeing the energy management system (EMS) to focus on strategic decisions and AI optimization.

Alternatively, the system can be controlled by an external EMS like **DeltaGrid®**. For more details, please get in touch with your Delta sales representative.

- Support for multiple application modes
- Easy integration with third-party EMS

Specifications

Model Name[1]	ESSS-EE124W2EX$_1$
General	
Rated AC Power	125 kW
Battery Capacity (BoL)	261 kWh
Efficiency	> 85% (excluding auxiliary power consumption)
Max. Number of Cabinets in Parallel	10 in on-grid operation and 5 in off-grid operation
User Interfaces	LED, EPO
Communication Interface	Ethernet (RJ45)
Communication Protocol	Modbus TCP/IP
Cooling Method	Liquid
Electrical - AC Side	
Rated Voltage	400/230 Vac (3P4W+PE)
Voltage Range	-15% to +10%
Rated Frequency	50 Hz
Current THD	< 3% @ rated linear load
Power Factor	-1 to 1, continuously adjustable
Electrical - DC Side	
Battery Type	LFP 314 Ah
Voltage Range (Full Load)	728 to 936 Vdc
Rated Charge/Discharge Rate	≤ 0.5C
Environmental	
Maximum Altitude	2000 m
Operating Temperature	-20 to +55 °C
Operating Humdity	0% to 95% relative humidity, non-condensing
Mechanical	
Enclosure Rating	IEC 60529 IP55
Dimensions (W x D x H)	1000 × 1420 × 2250 mm
Weight	< 2700 kg
Certifications	
Safety	IEC 62477, IEC 62619, UL 9540A
EMC	IEC 61000-6-2, IEC 61000-6-4
Grid Connection Codes[2]	EN 50549, G99 (pending), VDE-AR-N 4110 (pending)

Notes:
(1) X_1 indicates serial code.
(2) For country-specific information about grid code compliance, please contact Delta for details.

More Information

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