

Preliminary



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

DEL Terra C

- All-in-one commercial and industrial solution integrating PCS, battery, and unit controller
- Design that eliminates the need for underground trenching to streamline deployment
- Flexible configuration options ranging from 125 kW and 261 kWh, scalable up to 10 cabinets



Commercial
Buildings



EV Charging
Stations



Factories



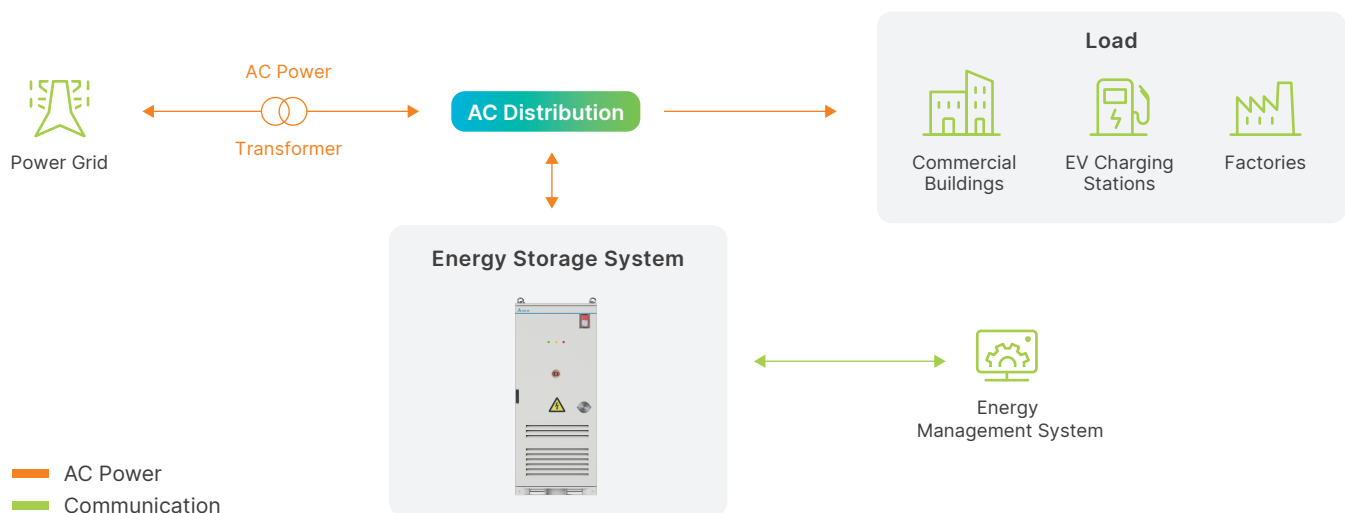
Quick Setup, Scalable, Ready for Tomorrow's Needs

DELterra C is an integrated, full-featured energy storage solution tailored for commercial and industrial applications. It seamlessly combines a Power Conversion System (PCS), advanced liquid-cooling technology, high-performance battery packs, and an internal controls to ensure effortless installation

and superior performance. Scalable up to 10 units, DELterra C offers exceptional flexibility, reliability, and versatility, making it the ideal choice for diverse energy storage needs.



System Architecture

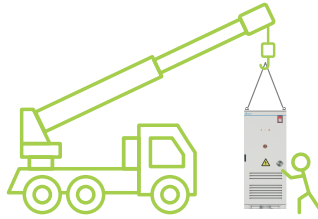


Feature Highlights

Easy and Quick Installation

Designed for forklift transportation and quick installation, the system requires no trenching for cables, significantly reducing on-site construction time and labor costs.

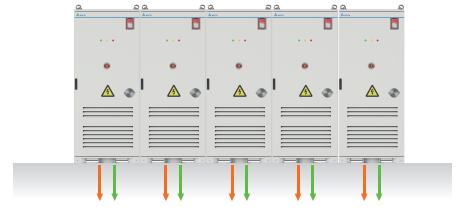
Traditional
Crane Transportation



DELterra C
Forklift Transportation



Traditional
Bottom Cable Entry with Underground Trenching



DELterra C
Side Cable Entry



Top-Level Safety Protection

Our advanced storage system features LFP 314 Ah cells and liquid cooling for optimal performance and longevity. With fire safety measures like gas-venting and water-immersion protection, it ensures maximum safety, reliability, and efficiency.

LFP 314 Ah Cell



- Long service life
- High energy density
- UL 9540A

Multi-Level Fire Safety



- Water-immersion fire protection
- Gas-venting valve
- Built-in heat, smoke, and flammable gas detectors, as well as fire aerosol for thermal runaway suppression

Intelligent Energy Management

In addition to incorporating real-time State of Charge (SoC) calibration, the internal controller supports four operation modes out-of-the-box, ensuring efficient energy management and addressing diverse application needs. Alternatively, the system may be controlled by an external EMS such as **DeltaGrid®**.

For information about **DeltaGrid®**, please consult your Delta sales representative.



- 4 operation modes out-of-the-box: P-Q, peak-shaving, ToU-tracking, meter-tracking
- Switching time from on-grid to off-grid: < 20ms
- Easy integration with DeltaGrid® or a third-party EMS



- Real-time SoC calibration
- Online maintenance
- Intelligent DoD adjustment

Specifications

Model Name ¹	ESSS-EE124WX,EX ₂
System Configuration	
Rated AC Power	125 kW
Battery Capacity (Nominal, BoL)	261 kWh
AC Round-Trip Efficiency	> 85%, excluding auxiliary power consumption
On/Off-Grid Switching Time	< 20 ms
Max. Number of Cabinets in Parallel	10 in on-grid operation and 5 in off-grid operation
User Interface	LED, Ethernet, EPO (Emergency Power Off)
Communication	Modbus TCP/IP
Cooling Method	Liquid cooling
AC Information	
Rated Voltage	400/230 Vac (3P4W+PE)
Voltage Range	± 15%
Rated Frequency	50 or 60 Hz
Current THD	< 3% @ rated linear load
Power Factor	-1 to 1, continuously adjustable
DC Information	
Battery Type	LFP 314 Ah
DC Voltage Range (Full Load)	728 to 949 Vdc
Max. C-Rate	0.5C
Environment	
Maximum Altitude	2000 m
Operation Temperature	-20 to +50 °C
Operation Humidity	0% to 95% RH, non-condensing
Mechanical Information	
Enclosure Rating	IEC 60529 IP 54
Dimensions (W x D x H)	1020 x 1470 x 2000 mm
Weight	< 2900 kg
Certifications	
Safety	IEC 62477, IEC 62619
EMC	IEC 61000-6-2, IEC 61000-6-4
Grid Connection Code ²	EN 50549-1

(1) X₁ indicates the battery discharge time, X₂ indicates serial code.

(2) For country-specific information about grid code compliance, please contact Delta for details.



More Information

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Specifications are subject to change without prior notice.

Please refer to the actual product purchased, and the latest version can be obtained from sales channels.