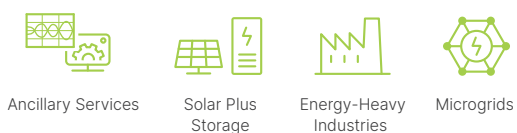




Modular Energy Storage Solution

DELTerra M

- Compact 10-ft battery container design for flexible configurations
- Seamlessly-integrated battery energy storage system with built-in controllers
- Comprehensive fire protection system, compliant with UL 9540A and other safety standards



Unlock Unmatched Flexibility and Integration with DELTerra M

DELTerra M features a compact 10-ft battery container design with flexible configurations ranging from 708 kWh to 7.78 MWh, making it an ideal solution for diverse energy storage needs. This highly integrated ESS includes built-in controllers, providing a fully-coordinated solution that maximizes performance while minimizing transportation and installation efforts.

Most importantly, with Delta's advanced battery management system and a comprehensive fire protection system, safety is assured at all times. With unmatched flexibility, seamless integration, and top-tier safety, DELTerra M stands as the ultimate choice for adaptable, efficient, and reliable energy storage solutions.



Features

Flexible Configurations for Optimized Footprint

- DC energy capacity: 708 kWh to 7.78 MWh
- AC power: 1 MW to 3.45 MW

Comprehensive Fire Protection for Top-Tier Safety

- Real-time monitoring of each cell's temperature and voltage
- Dual-redundant smoke, heat, and flammable gas detectors
- Equipped with aerosol fire extinguishers, gas venting systems, and an optional built-in fire sprinkler system

Seamless Integration for High Compatibility

- Delta's in-house BMS and controllers enable optimal operation
- Pre-tested batteries, PCS and controllers ensure flawless compatibility

Intelligent Battery Management for Reliability and Simplified Maintenance

- Proactive battery balancing and aging analysis
- Automatic detection of potentially-abnormal battery cells
- Service modes enable temporary overrides for testing and streamline maintenance

Product at a Glance

Battery System

Flexible Connectors

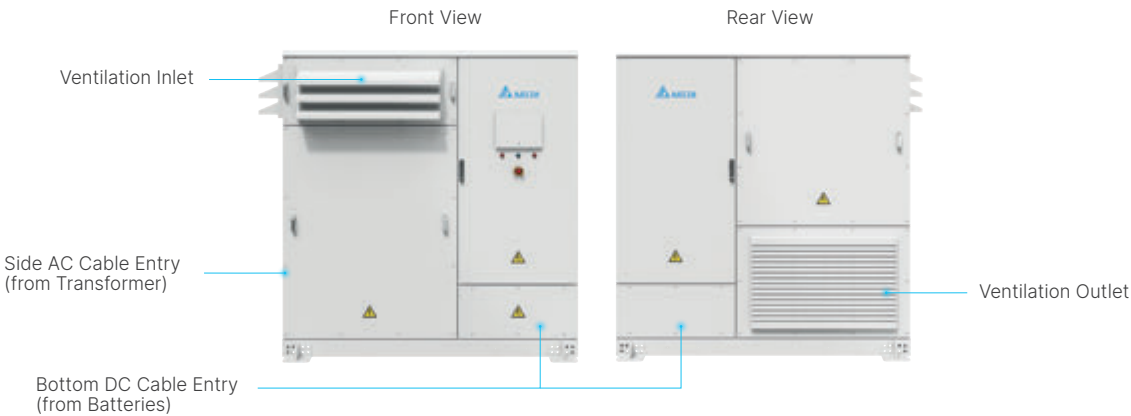
- Containers connected by DC busbars and protection ducts that are flexible
- Tolerance of positioning errors, which can minimize hoisting effort and greatly save on on-site man-hours



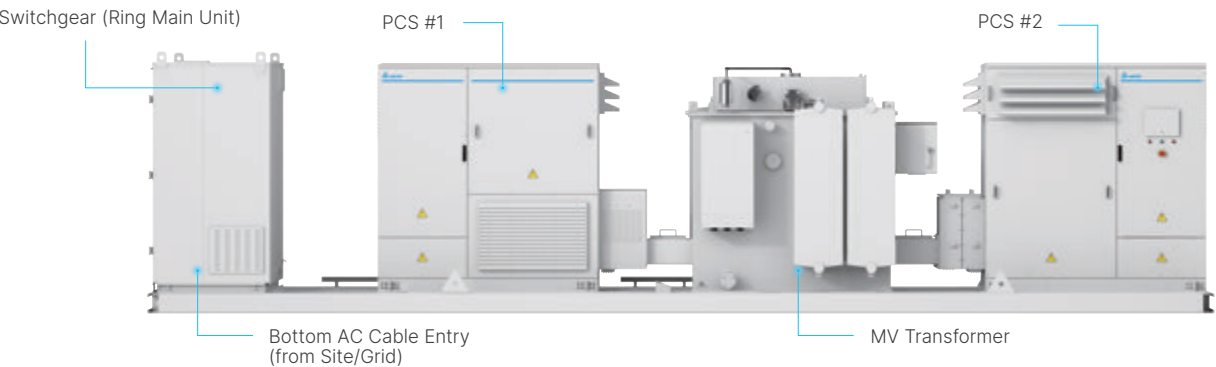
Quick Wiring Interface

- Side cable entry reduces the effort required for civil works
- On-site work can be performed without opening the containers, avoiding the risk of exposure to water vapor or foreign particles

PCS1500 Series



PCS3450-MV



Specifications

Model Name	ESSS-EE105W	ESSS-EE125W	ESSS-EE155W	ESSS-EE175W	ESSS-EE345W
System Configuration					
Rated AC Power	1000 kW	1200 kW	1500 kW	1725 kW	3450 kW
Battery Capacity (BoL, Nominal)	708 to 7788 kWh				
AC Round-Trip Efficiency	> 85%, excluding auxiliary power consumption and transformers				
Medium Voltage Transformer	Not included, isolation transformer required			Included	
User Interface	HMI, LED, Ethernet, EPO (Emergency Power Off)				
Communication	Modbus TCP/IP				
Cooling Method	Forced air cooling			PCS and Battery System: Forced air cooling Transformer: ONAN (mineral or FR3 oil)	
AC Information					
Rated Voltage	400 Vac	480 Vac	600 Vac	690 Vac	34.5 kVac, other voltages available upon request
Voltage Range	± 10%				
Rated Frequency	50 or 60 Hz			50 Hz	
Current THD	< 3% @ rated linear load				
Power Factor	-1 to 1, continuously adjustable				
DC Information					
Battery Type	LFP 280 Ah				
Voltage Range (Full Load)	1089 to 1386 Vdc				
Maximum C-Rate	0.5C, higher C-rates possible depending on load profile				
Environment					
Maximum Altitude	2000 m				
Operating Temperature	-30 to +50 °C, de-rating above 45 °C				
Operating Humidity	5% to 95% RH, non-condensing				
Mechanical Information					
Enclosure Rating	IP55 (PCS) IP54 (Battery System)			IP55 (PCS), IP54 (Switchgear), IP65 (Transformer) IP54 (Battery System)	
Dimensions (W x D x H)	PCS: 2420 × 1436 × 2280 mm Battery System: ¹ 2438 × 2991 × 2896 mm			PCS: 10550 × 2200 × 2510 mm Battery System: ¹ 2438 × 2991 × 2896 mm	
Weight	PCS: 2600 kg AIO Container (with 2 Battery Strings): 12000 kg BC Container (with 4 Battery Strings): 16000 kg			PCS with Transformer and Switchgear: < 22000 kg AIO Container (with 2 Battery Strings): 12000 kg BC Container (with 4 Battery Strings): 16000 kg	
Certifications					
Safety	CE, UKCA, UN 38.3, IEC 62477-1, IEC 62619, UL 9540A, UL 1973				
EMC	IEC 61000-6-2, IEC 61000-6-4				
Grid Connection Code ²	EN 50549-2, G99, NTS 2.1, VDE-AR-N 4110,2 Synergrid C10/26			EN 50549-2, G99, NTS 2.1	

(1) Refers to size per container (AIO or BC). A full system may include up to 6 containers.
(2) Currently not available for the 1725-kW model.

For further specifications, consult the respective product's documentation.



More Information

Delta Electronics (Netherlands) B.V.

Zandsteen 15, 2132, Hoofddorp, The Netherlands
Tel.: +31 20 655-0900
EVCSEMEA.Marketing@deltaww.com

www.delta-emea.com



2024 / 12