

UTILITY-SCALE BATTERY ENERGY STORAGE

Tera G1

3.44 MWh containerised storage for grid support and renewable integration



3.44 MWh

Rated energy capacity

280 Ah

LFP cell, 3.2 V

Liquid

Cooling system

IP54

Outdoor enclosure

Built for grid-scale duty

Tera G1 is a containerised battery energy storage system for utility-scale electricity storage, supporting renewable integration, grid stabilisation and demand management.

Lithium iron phosphate cells, liquid cooling and integrated monitoring give safe, efficient and reliable operation outdoors.

APPLICATIONS

- Solar and wind energy storage
- Grid stabilisation
- Peak shaving and load management
- Distributed energy and microgrids
- Renewable energy integration
- Commercial and industrial energy management

Supplied, installed and supported by EMS Global Power Solutions.

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SPECIFICATION

Key specifications and features

Specification	Details
Product model	Tera G1
System type	Utility-scale battery energy storage system
Rated energy capacity	3.44 MWh
Battery chemistry	Lithium iron phosphate (LFP)
Battery cell	3.2 V / 280 Ah
Maximum charge / discharge rate	0.5P
Rated battery voltage	1,228.8 V (range 1,075.2 to 1,382.4 V)
Cooling system	Liquid cooling
Enclosure protection	IP54, outdoor installation
Dimensions (L × W × H)	6,058 × 2,438 × 2,896 mm
Approximate weight	35,000 kg
Operating temperature	-20°C to +55°C

Liquid cooling Keeps cell temperatures stable across the duty cycle.	Intelligent monitoring Supports system monitoring and operational management.	Integrated safety Battery protection with fire detection and suppression.	Modular architecture Scales to utility and renewable energy projects.
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IMPORTANT TECHNICAL NOTE

The rated AC power depends on the inverter configuration selected for the project. Specifications vary by configuration and revision, so final selection should be based on the current datasheet, confirmed usable capacity, efficiency and safety certifications. This document is a product information overview, not an installation or commissioning manual.

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