

1 MWh Containerized Energy Storage System

This 1 MWh energy storage system integrates solar panels and wind turbines with a containerized battery storage unit. The system is designed for efficient energy capture, conversion, and storage, providing a reliable and sustainable power solution.



Overview

High-Capacity Containerized Energy Storage

This 1 MWh containerized energy storage system is engineered for efficient energy capture and reliable power delivery in diverse environments. The system integrates advanced battery modules with intelligent management software to support grid stabilization, peak shaving, and off-grid applications. Its robust containerized design ensures easy transportation and installation while providing comprehensive safety features including thermal management and overcharge protection.

Performance Metrics

Key Performance Metrics

1 MWh

Nominal Capacity

0.5 C

C-Rate

Electrical Specifications

| | |
|---------------------------|-----------------|
| Operating Voltage Range | 489.6V - 710.4V |
| Charge and Discharge Rate | 0.5C |

Battery Configuration

| | |
|--------------------------------------|---------|
| Battery Module Configuration | 6S3P |
| System Series/Parallel Configuration | 192S15P |

Environmental & Safety

| | |
|-----------------------------|---|
| Operating Temperature Range | -40°C to 60°C |
| Integrated Safety Features | Overcharge Protection, Over-discharge Protection, Thermal Management, Intelligent Energy Management |

Applications

Primary Applications

- Grid stabilization
- Peak shaving
- Off-grid power supply
- Renewable energy integration (Solar/Wind)