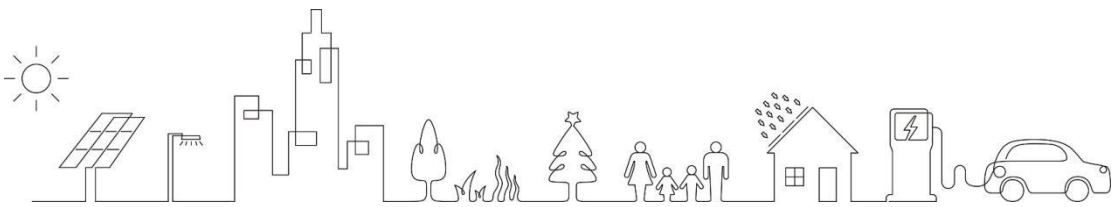
Tensorpack S

Energy Storage System

Specification

R1.0



1 Product Introduction

1.1 Background

With the global energy transformation, energy storage technology has become a key link to ensure the stability of the power grid. Tensorpack S commercial and industrial ESS (Energy Storage System) provides efficient and reliable energy storage solutions for modern power grids and energy systems.

1.2 Scope of Use

The Tensorpack S ESS is composed of a battery system and an AC control system. This document aims to describe in detail specifications of the Tensorpack S ESS , providing clear guidance and reference for engineers, users, and other relevant personnel.

1.3 Features

- **Peak Performance**
  Energy density up to 98.4 kWh/m³ with system efficiency ≥ 94%, enabling scalable and cost-effective energy storage solutions.
- **Neat Flexibility**
  Supports 6-8 unit parallel connections and reduced cluster options for versatile applications
- **Deep Safety**
  Certified to UL and IEC standards, featuring Zone 4 seismic design for compliance with global safety requirements.
- **Wide Resilience**
  Operates reliably in ambient temperatures from -30°C to +55°C, with IP55 protection, C4-M corrosion resistance, and full performance up to 4000m.
- **Smart Assistance**
  Integrated EMS interface, remote monitoring, and full-cycle maintenance support for optimized operational efficiency.

2 System Specification

Tensorpack S Energy Storage System	
Model Type	Tensorpack S
System Information	
Nominal AC Power	418kW
Nameplate Capacity	836kWh
Battery Information	
Battery Chemistry	LFP
Battery Capacity	314Ah
Configuration	416S2P
Nominal Voltage	1331.2V
Voltage Range	1123.2~1497.6V
Working Conditions	
Degree of Protection	IP55
Noise Emission	≤72dB
Operating Temperature Range	-30℃~55℃
Relative Humidity	0~95%RH
Max.Working Altitude	4000m
Specifications	
Dimensions(W*H*D)	2000*2470*1700mm
Weight	6.75±0.2t
Cooling Method	Intelligent Liquid Cooling
Aux.Power Supply	AC480V/3P3L 60Hz
Fire Suppression System	Dry Pipe, Gas Detection and Ventilation, Aerosol, Alarm System
Certificate	UL9540A, UL1973, UN38.3, UL9540(Pending)

3 Circuit Diagram