1MWh Energy Storage Container System

HJ-G500-1200F 500KW/1.2MWh

Product Introduction

HJ-G500-1200F 1MWh Energy Storage Container System is a highly-integrated and high-efficiency energy storage solution, which adopts high-quality battery technology and intelligent control system, and integrates the battery and PCS (Energy Storage Converter) in a standard 20-foot container. With a total capacity of 1205.760KWh and a rated power of 500KW, it has off-grid and on-grid options, can meet various energy storage and management needs, and is suitable for power protection and energy regulation in various scenarios.

Product Features

- High-performance battery system
- High-efficiency temperature control system
- Perfect safety protection
- Intelligent monitoring and management
- Intelligent control system

Parameter

Model	HJ-G500-1200F
Cell Type	LFP 51.2V/314Ah
Energy Rating	1205.76kWh
Combined Configurations	75*51.2V/314Ah Packs
Voltage Range	DC652~DC880V
Dimensions (H * D * W)	6058×2438×2896mm
Weights	≈31T
Ingress Protection Grade	IP54
Fire Fighting Methods	container level fire fighting system, including gas detection device, fire alarm system, perfluorohexanone fire extinguishing system with pipe network.
Max. operating altitude	3000m (>2000m derating)
Operating Temperature Range	-30°C~50°C(>45°C derating)
Cooling method	Air cooling
Communication Protocol	RS485/Ethernet (Modbus TCP, IEC 104, IEC 61850)
Rated output power	500KW
Rated current	50Hz
Grid Freq. Range	45~55Hz
Total Harmonic Current Distortion	<3%
Rated grid Freq.	-1~+1
Product Standard	GB/T36276、GB/T34131、GB/T34120、GB/T34133、GB/T44026
Safety certification	IEC62619-1/2
EMC certification	EN61000-6-1/2/3 、IEC61000
Grid Connection Standard	AS4777-2:2020,NRS097-2-1:2017, PN-EN50549-1:2019, VDE-AR-N4105:2018, EN50549-1:2019+AC:2019-4, CQC3310-2014

Application Scenarios:

Power grid peak shifting and frequency regulation, industrial and commercial standby power, microgrid construction.