1MWh Energy Storage Container System

HJ-G500-1000F 500KW/1MWh

Product Introduction

HJ-G500-1000F 1MWh Energy Storage Container System.The system adopts lithium iron phosphate battery core, with 500kW energy storage converter, and realises intelligent control through energy management system (EMS), which has perfect communication, monitoring, management, control, warning and protection functions, and can achieve long-time continuous and safe operation, and is suitable for a variety of energy storage application scenarios.

Product Features

- Advanced System Architecture
- Efficient and reliable converter
- Intelligent monitoring and management
- Reasonable container design

Parameter

Model	HJ-G500-1000F
Cell Type	LFP 51.2V/280Ah
Energy Rating	1118.2KWh
Combined Configurations	78*51.2V/280Ah PACKs
Voltage Range	660V
Dimensions (H * D * W)	6058*2438*2896mm
Weights	≈32T
Ingress Protection Grade	IP55
Fire Fighting Methods	container level firefighting 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	Intelligent forced 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 station peak shifting, industrial energy storage, commercial energy storage, micro-grids