Commercial an d industrial energy storage system
FGESS-100K/215K-0.4OW

Overview

The equipment adopts "All In One" modular design. The battery PACK, battery management system (BMS), energy management system (EMS), ennrgy storage conversion system (PCS), temperature control system (TCS) and fre protection system (FPS) are integrated into one cabinet, forming a standardized, plug-and-play modular energy storage system.

Features

•High safety
Single battery cluster design avoiding capacity loss due to parallel connection and decreasing the thermal runaway risk,Immersion active fre protection and intelligent safety warning.

•High perfermance
Support multi-stage parallel connection, demand control function,a nti-backfow function and load tracking function.
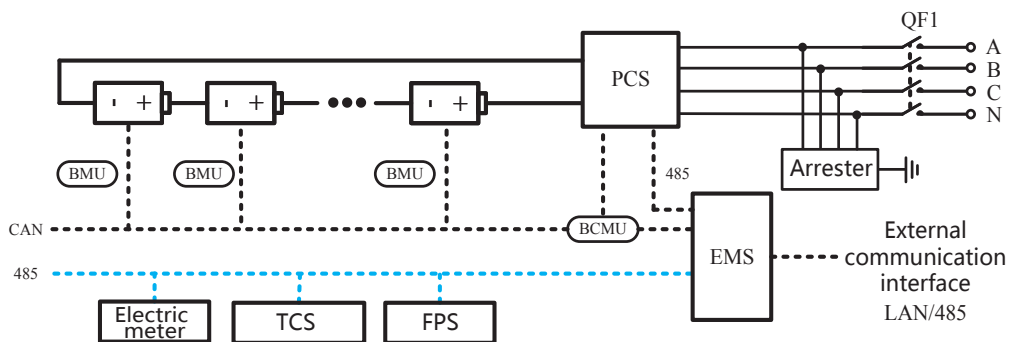
•High flexiblity
Integrated design to decrease footprint and make construction easier and capacity expansion more fexible.

•High intelligence
Distributed database function, health management and active operations and maintenance function, cloud-edge collaborative energy scheduling function.

Electrical schematic diagram

Technical parameter

Model	FGESS-100K/215K-0.4OW		
Cell type	LFP 3.2V/280Ah	Battery voltage	672~864V
Battery PACK	43kWh/1P48S	range DC production	Circuit breaker+Fuse
configuration Battery system configuration	215kWh/1P240S	Battery PACK IP degree	IP67
AC side parameter			
AC rated power	100kW	Grid rated voltage	400V
Max rated power	120kW	Grid rated frequency	50Hz
THDi	≤3%(Full load)	Adjustable range of PF	-1~+1
DC component	≤0.5%Ipn	Convention time of charge/discharge	<100ms
System parameter			
Max system efficiency	≥87%&0.5P	Cooling method	Liquid cooling
Charge/discharge ratio	≤0.5P	Operating tem[erature	-20℃~+50℃ (>45℃ derating)
Discharge depth	5~95%DOD	Relative humidity	0~95%RH,no condensation
Noise	≤75dB	Altitude	≤2000m
Refrigeration	3.0kW	Refrigeration input	1.4kW
capacity Cycle times	6000	Fire protection system	Aerosol
Communication	LAN/485	IP degree	IP54
interface Dimnesions(W*D*H)	1300*1300*2200mm	Weight	2700kg