Air-cooled I&C Distributed Energy Storage System

Model: HJ-ESS-DESA Power: 215 KWh- 1075KWh

Summary

The HJ-ESS-DESA series is the next generation of energy storage systems designed for commercial and industrial users.

Air-cooled I&C Distributed Energy Storage System (HJ-ESS-DESA)

Product Features

Adaptive Cooling

The air-cooling system dynamically adjusts cooling levels based on real-time energy consumption, reducing component wear and ensuring optimal performance and system longevity during periods of high demand

Sustainability-Centric Design

Compatible with solar PV and other renewable energy systems, supporting businesses committed to reducing their carbon footprint and achieving long-term sustainability goals

Energy Independence and Optimization

The system features an optional smart energy management system, which uses real-time data analysis and AI-driven energy optimization to enhance energy independence and reduce reliance on unstable grid connections

Enhanced Safety Mechanisms

The system is equipped with multiple safety features, including fire suppression, thermal runaway prevention, and real-time diagnostics, ensuring continuous safe operation

Technical Parameters

Battery parameters

HJ-ESS-DESA series distributed energy storage system					
Product number	**HJ-ESS-DESA1**	**HJ-ESS-DESA2**	**HJ-ESS-DESA3**	**HJ-ESS-DESA4**	**HJ-ESS-DESA5**
Number of battery cabinets	**1**	**2**	**3**	**4**	**5**
Rated energy	**215kWh**	**430kWh**	**645kWh**	**860kWh**	**1075kWh**
Rated power	**100KW**	**200KW**	**300KW**	**400KW**	**500KW**
System efficiency	**90%**	**90%**	**90%**	**90%**	**90%**

System parameters

Grid-connected line system	**3W+N+PE**	**Grid voltage**	**380(-15%~+10%)**	**Grid connection frequency (Hz)**	**50(±2)/60(±2)**
Power Factor	**-0.9□+0.9**	**Output harmonics**	**≤3%(rated power)**	**Cooling method**	**Air cooling**
Cycle life(times)	**80%DOD 6000**	**Protection level**	**IP54**	**Installation method**	**Outdoor, floor installation**
Weight	**≦2500KG**	**Certification**	**CE, ROHS, UN38.3/MSDS**		

Application

Smart Cities and Green Buildings: Ideal for urban developments and eco-friendly buildings, providing intelligent energy storage solutions that stabilize the grid and reduce energy costs in densely populated areas. Distributed Energy Systems: Suitable for microgrid applications, helping companies in remote or off-grid locations achieve energy independence and reduce reliance on centralized power sources.

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