iES-ICS Series: 600 kW ~ 1920 kW
Fully Liquid-Cooled Flexible Charge & Discharge System



CE Certification

- SAFE
- STABLE
- EFFICIENT
- INTELLIGENT

Product Introduction

The full-liquid-cooled flexible charge-discharge system is a high-power bidirectional device with full liquid cooling. It supports high-power charging, V2G discharge and DC bus connection, serving EV charge-discharge and distributed energy storage applications. Composed of a liquid-cooled main cabinet and charge-discharge terminals, it applies advanced power electronics, automatic control and intelligent power dispatching for centralized management. It enables group control, flexible charge-discharge, power sharing and dynamic allocation for versatile, smart and efficient operation. It delivers up to 1920 kW charging power and 1280 kW discharging power. With built-in 60 kW bidirectional AC/DC liquid-cooled modules, it offers 18 charging cable output channels, with liquid-cooled or air-cooled terminals optional. It fits V2G, PV-storage-charging, fast/ultra-fast charging, energy storage and photovoltaic power management scenarios.

Product Features

Industry-leading megawatt-level full liquid-cooled system featuring high efficiency, large output power, superior IP protection rating and low noise, suitable for all kinds of complex and harsh operating environments.
Adopts DC bus architecture and allows access to photovoltaic and energy storage equipment.
Integrated charging and discharging capabilities:
① Supports up to 18 charging cable outputs; liquid-cooled terminals and natural air-cooled terminals can be deployed in a mixed manner.
② Compatible with V2G (Vehicle-to-Grid) interaction and bidirectional DC energy metering.
③ The maximum charging power of a single liquid-cooled terminal reaches 1 MW.
Liquid cooling system: Intelligent algorithms regulate system temperature. The liquid cooling solution delivers outstanding heat dissipation efficiency with a fully sealed, maintenance-free design, greatly extending the service life of the equipment.

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Technical Specifications

Basic Data	Product Name	Full Liquid-Cooled Flexible Charge & Discharge System				
	Models	iES-ICS-6222C-600	iES-ICS-6222C-720	iES-ICS-6222C-960	iES-ICS-6222C-1080	iES-ICS-6222C-1920
	Max Gun Quantity	10	12	16	18	18
	Rated Power	Floor Mounted				
	Installation Method	600 kW	720 kW	960 kW	1080 kW	1920 kW
	Cooling Method	Liquid-Cooled				
	Dimensions (mm)	2000*900*2250		2600*900*2250		Customizable
Input	AC Input Voltage	AC 400 V ± 15%				
	AC Input Voltage	DC 680 ~ 900 V				
Output	Charging Output Voltage Range	DC 200 - 1000 V				
	Rated Charging Output Power	600 kW	720 kW	960 kW	1080 kW	1920 kW
	Voltage Accuracy	≤ + 0.5%				
	Current Accuracy	≤ ± 1%				
	Discharging Output Voltage Range	AC 400 V ± 15%				
	Rated Discharging Output Power	400 kW	480 kW	640 kW	720 kW	1280 kW
	Efficiency	Energy Efficiency Class 1 / Class 2 (Optional)				
Working Environment	Ambient Temperature	-35℃ ~ +55℃				
	Altitude	≤ 2000 m				
	Relative Humidity	5% ~ 95% RH, Non-condensation				
	Protection Level	IP55				
	Noise	≤ 55dB@25℃				

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