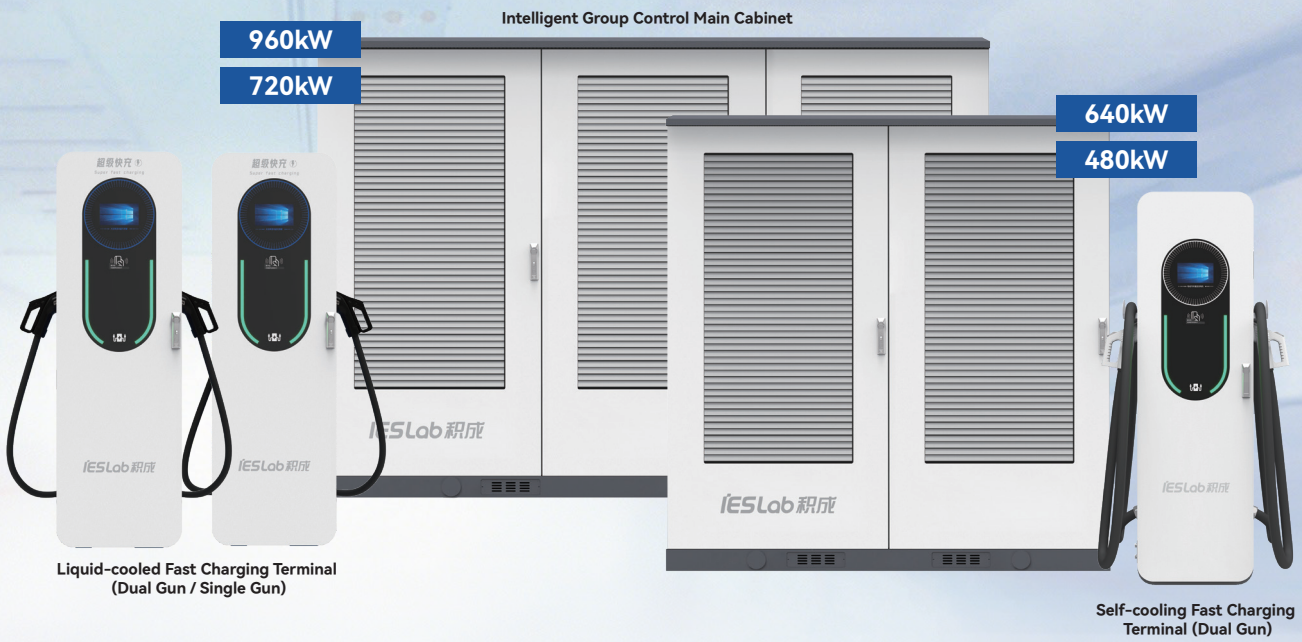
iES-ICS Series: 480 kW ~ 960 kW
Megawatt-Level Flexible Interconnected Group-Controlled Charging System



Product Introduction

The iES-ICS6314 Series Megawatt-Level Flexible Interconnected Group Control Charging System is designed for ultra-fast charging scenarios, mainly deployed at urban public fast-charging stations, expressways and national highway trunk networks. It delivers stable megawatt-level ultra-fast charging for heavy-duty trucks, vessels and other high-power equipment.This system adopts a split-type structure consisting of a charging rectifier cabinet and multiple charging terminals, forming a flexible, high-efficiency group control architecture with expandable capacity up to 4.8MW.Core components cover high-efficiency charging modules, intelligent power control units, power switching matrix, charging control modules, 4G wireless communication modules, high-precision energy meters, 7-inch HMI touch screens, and charging connectors with two optional specifications: one compliant with GB/T 20234 (Chinese domestic standard), the other complying with IEC 62196-3 (CCS2 European standard). The whole machine reaches IP55 protection rating.

Product Features

- **Power Pool Architecture:** Unified power pool with dynamic flexible dispatching; single-gun output ≥1MW, ready for future ultra-fast charging.
- **Level-1 Efficiency, Lower Costs:** Weighted system efficiency ≥96.5% (1.5% higher than traditional equipment), saving >20,000 RMB/year per system.
- **Ultra-Wide Voltage, Full Coverage:** Output DC 200–1000V, constant power 300–1000V, compatible with passenger cars, heavy trucks, and construction machinery.
- **AI Self-Diagnostics + OTA:** Self-diagnosis, self-protection, remote upgrades for proactive O&M and intelligent management.
- **Multi-Layer Safety Protection:** Industry-leading 108 active protection strategies, deep BMS interaction, flexible power dispatch, full battery monitoring – shifting safety from passive response to active precaution.
- **Comprehensive Protection:** Full-dimensional active protections (overvoltage, undervoltage, overload, short circuit, leakage, over-tem perature, surge protection, emergency stop, door-open power cut, etc.) – real-time risk sensing and active fault disconnection.

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Technical Specifications

Basic Data	Product Name	Megawatt-Level Flexible Interconnection Group-Controlled Charging System			
	Rated Power	480 kW	640 kW	720 kW	960 kW
	Housing Material	High-strength Galvanized Sheet, Anti-corrosion and Anti-rust			
	Structural Type	Split Type: Rectifier Cabinet + DC Charging Terminal			
	Host Dimensions (cm)	204*90*210		306*90*210	
	Terminal Dimensions (cm)	• Self-cooling fast charging terminal: 50*24*160 • Liquid-cooled ultra-fast charging terminal: 50*24*160 / 50*34*160			
	Connection Method	Connection Method C, Charging Mode 4			
Electrical Specifi-cations	Input Voltage / Frequency	AC 400 V ± 15%/50 ± 1Hz			
	Output Voltage	DC 200 ~ 1000 V			
	Constant Power Range	DC 300 ~ 1000 V			
	System Max. Output Current	1600 A	2133 A	2394 A	3200 A
	Single-Channel Max. Output Current	250 A / 300 A / 400 A / 600 A / 800 A			
	Number of DC Output Channels	16	16	12	16
	Voltage Regulation Accuracy	≤ ± 0.5%			
	Current Regulation Accuracy	≤ ± 1%			
	Voltage Ripple Factor	Peak ≤ 0.5			
	Standby Power Consumption (Whole Unit)	≤ 48W			
	Input Power Factor	≥ 0.99			
	Noise	≤ 65 dB			
	Accuracy Class	Level 1.0			
	Mean Time Between Failures (MTBF)	≥ 500000 h			
	Insulation / Dielectric Strength	2200 V AC / 50Hz 10mA, 1 Minute Without Breakdown			
	Efficiency	First-Level Energy Efficiency / Second-Level Energy Efficiency (Optional)			
Environ-mental Specifi-cations	Operating Temperature	-25℃ ~ 50℃			
	Operating Humidity	5% ~ 95% RH			
	Operating Altitude	≤ 2000 m			
	Protection Level	IP55			
	Cooling Method	Intelligent Forced Air Cooling			
	Storage Temperature	-40℃ ~ 70℃			
Safety Protec-tion	Input Protection	Input Overvoltage / Undervoltage Protection			
	Output Protection	Output Overload / Short Circuit Protection			
	Equipment Safety Protection	Electrical Leakage, Grounding, Environmental Over-temperature, Lightning Protection, Door Opening Power-off Protection			
	Charging Process Protection	Emergency Stop, Insulation Detection, Gun Head Locking, Gun Head Over-temperature Protection			
Human -Machine Interaction	Status Display	LED Three-color Indicator Light			
	LCD Screen	7-inch Color LCD Screen (Optional)			
	Communication Interface	4G / 5G, Ethernet			
	Start Method	Swiping RFID Card, Scanning QR Code			
	Smart / Intelligent Functions	Automatic Power Distribution, OTA Upgrade, Charging Reservation, Scheduled Charging			

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