iES-ICS Series: 240 kW ~ 600 kW
High-Power Integrated DC Charger



CE Certification

SAFE

STABLE

EFFICIENT

INTELLIGENT

Product Introduction

The iES-ICS6312 series high-power integrated DC charger is specially developed for high-power charging scenarios of special vehicles such as heavy trucks, mining trucks and construction machinery. It is mainly deployed in urban public fast charging stations, as well as ultra-fast charging networks along expressways and national highways, delivering continuous and reliable high-power charging services for heavy trucks, mining trucks, construction machinery, vessels and other special equipment.

Adopting an integrated design, this product features a maximum system power of up to 600 kW. Its core components consist of high-efficiency charging modules, intelligent power control units, power switching units, charging control modules, 4G wireless communication modules, high-precision electric energy meters, a 7-inch human-machine interface, charging connectors complying with GB/T 20234 national standard, and outdoor cabinets with an IP55 high protection rating.

Product Features

- **Integrated Architecture:** Centralized, compact, easy to deploy; supports simultaneous charging of multiple vehicles and high-power needs of heavy trucks.
- **High Efficiency & Energy Saving:** Weighted system efficiency ≥96.5% (high-efficiency version), meeting Level-1 energy standard; saves >4,000 RMB/year per device in electricity costs.
- **108 Active Safety Protections:** Deep BMS interaction, flexible power dispatch, full battery monitoring – shifting from passive response to active precaution.
- **Full-Scenario Compatibility:** DC output 200–1000V, constant power 300–1000V, covering all models from passenger cars to heavy trucks.
- **AI Smart O&M:** AI self-diagnostics & OTA updates enable fault prediction and remote handling, greatly improving O&M efficiency.
- **Comprehensive Electrical Protection:** Overvoltage, undervoltage, overload, short circuit, leakage, over-temperature, surge protection, emergency stop, door-open power cut, etc. – real-time risk sensing and active fault disconnection.

©2026 Shandong Jicheng Zhitong New Energy Co., Ltd. All rights reserved. Subject to change without notice.

Technical Specifications

Basic Data	Product Name	High-Power Integrated DC Charger					
	Models	iES-ICS62240E	iES-ICS62320E	iES-ICS62360E	iES-ICS62400E	iES-ICS62480E	iES-ICS62600E
	Rated Power	240 kW	320 kW	360 kW	400 kW	480 kW	600 kW
	Housing Material	High-Strength Galvanized Sheet, Anti-corrosion and Rust-proof					
	Structural Type	Integrated					
	Dimensions (cm)	85*88*190					
	Connection Method	Connection Method C, Charging Mode 4					
	Charging Gun	CCS2 ×1 / ×2; Optional: CCS2 ×1 + GB/T ×1; Optional: GB/T ×1 / ×2					
Electrical Specifi-cations	Input Voltage / Frequency	AC 400V ± 15%/50 ± 1Hz					
	Output Voltage	DC 200 ~ 1000 V					
	Constant Power Range	DC 300 ~ 1000 V					
	Max. Output Current (Dual Guns)	MAX 800 A					
	Auxiliary Power Supply	12 V ± 5%					
	Voltage Regulation Accuracy	≤ ± 0.5%					
	Current Regulation Accuracy	≤ ± 1%					
	Voltage Ripple Factor	Peak ≤ 0.5					
	Accuracy Class	Level 1.0					
	Standby Power Consumption (Whole Unit)	≤ 30W					
	Input Power Factor	≥ 0.99					
	Noise	≤ 65 dB					
	Mean Time Between Failures (MTBF)	≥ 500000 h					
	Insulation / Dielectric Strength	2200 V AC / 50 Hz 10 mA, 1 Minute Without Breakdown					
	Efficiency	First-Level Energy Efficiency / Second-Level Energy Efficiency (Optional)					
Environ-mental Specifi-cations	Operating Temperature	-25℃ ~ 65℃, It Should Be Used At a Reduced Capacity Above 50℃.					
	Operating Humidity	5% ~ 95% RH					
	Operating Altitude	≤ 2000 m, For Distances Over 2000 Meters, The Usage Must be Reduced.					
	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					

Shandong Jicheng Zhitong New Energy Co., Ltd.

Website: http://www.ieslabpower.com

Mailbox: mandy@ieslabpower.com

WhatsApp: Mandy +86 13910056009

24-Hour Service Hotline: **400-989-2999**

Add: Jicheng Industrial Park, No. 1677 Kehang Road,Licheng District, Jinan, Shandong, China

WhatsApp