

Intelligent Grounding Unit for High Voltage Cables

Smarter Monitoring.
Reliable Power.

Sichuan Yachen Electric Co., Ltd.
Qingdao Britop International Trading Co., Ltd.

Intelligent Grounding Unit (IGUHV) for High Voltage Cables



Sichuan Yachen Electric Co., Ltd. is a technology-driven manufacturing enterprise headquartered in Mianyang, Sichuan Province—known as China's "City of Science and Technology." Since its establishment in 2004, the company has specialized in the R&D and production of electromagnetic pulse (EMP) protection products, power transmission network monitoring equipment, lightning protection systems, instrumentation, high/low voltage electrical switches, and medical isolated power (IT) systems.

Our solutions are widely deployed across diverse sectors, including construction, electric power, telecommunications, railways, healthcare, and defense. Leveraging a robust R&D team, significant capital investment, and state-of-the-art infrastructure, Yachen Electric maintains long-term strategic partnerships with leading universities and research institutions. This commitment to collaboration ensures continuous technological optimization and innovation. To date, the company holds numerous invention and utility model patents, and all products have been rigorously tested and certified by authoritative Chinese industry bodies.

Our unwavering focus on advanced R&D, stringent quality control, and exceptional product reliability has earned Yachen Electric extensive recognition and acclaim from clients worldwide.

Mission: To enhance global power reliability through cutting-edge intelligent monitoring technology and innovative protection solutions. (使命：通过尖端的智能监测技术和创新的防护方案，提升全球电力的可靠性。)

Core Values:

Precision: In every sensor and every data point. (精准：对待每一个传感器和数据点。)

Integrity: Building trust through reliable infrastructure. (正直：通过可靠的基础设施建立信任。)

Innovation: Solving tomorrow's grid challenges today. (创新：今日即解决明天的电网挑战。)



Corporate Qualifications & Certifications: Yachen Electric is committed to operational excellence and holds several international management certifications, including:

- ISO 9001:2015 (Quality Management System)
- ISO 45001:2018 (Occupational Health and Safety Management System)
- ISO 14001:2015 (Environmental Management System)
- AAA-rated Credit Enterprise (since 2011) and AAA-rated Quality & Integrity Excellence Unit (since 2012)

Furthermore, the company serves as the Vice Chairman Unit of the Electromagnetic Pulse and Lightning Protection Technology Professional Committee of the Sichuan Institute of Electronics, and a Director Unit of the Southwest Construction Electrical Information Network. We are also a selected supplier for military-grade products.

To ensure superior customer experience, Yachen Electric maintains a strong presence across major regions in China, providing rapid and high-quality technical support and after-sales service. Our global reach is further extended through an extensive network of authorized distributors.

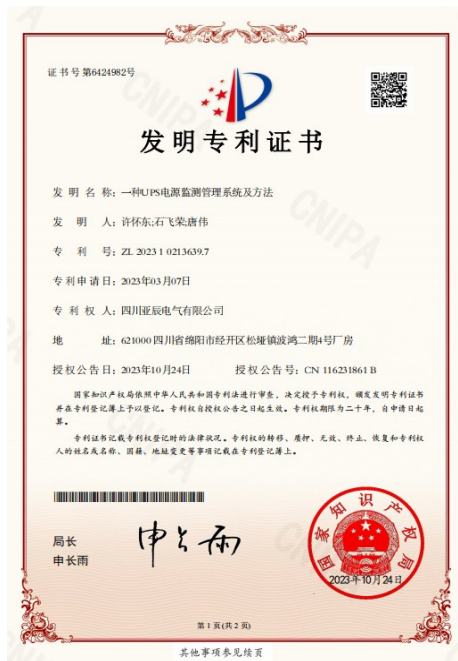
We sincerely welcome domestic and international partners to explore collaborative opportunities and achieve mutual growth.



Company Qualifications and Honors: Patent Certificate

Britop
博越达

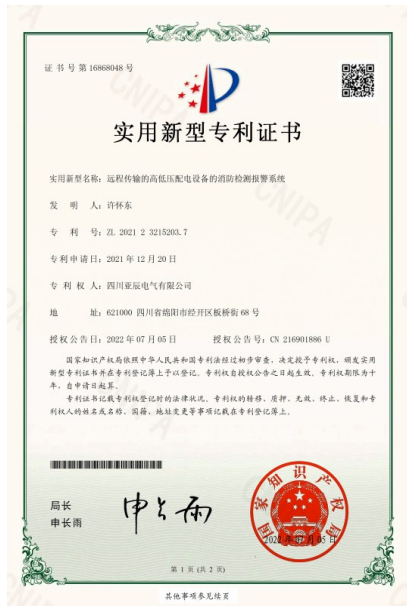
Yc
亚辰电气



- 1, Electromagnetic Pulse Protection Method and Device Invention Patent
- 2, UPS Power Monitoring and Management System and Method Invention Patent
- 3, Switch Cabinet for Easy Wiring Utility Model Patent Certificate



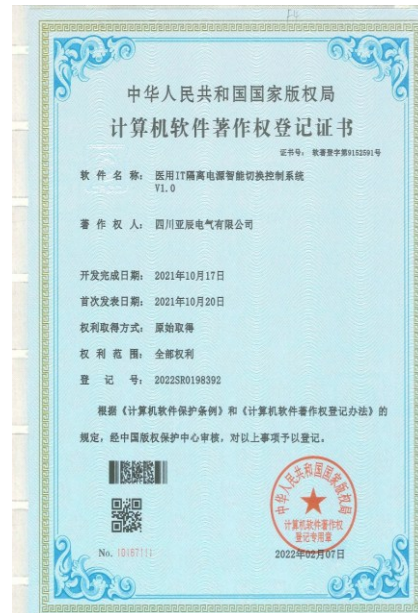
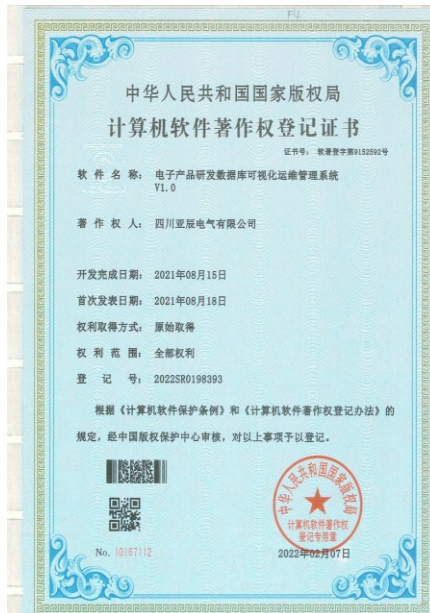
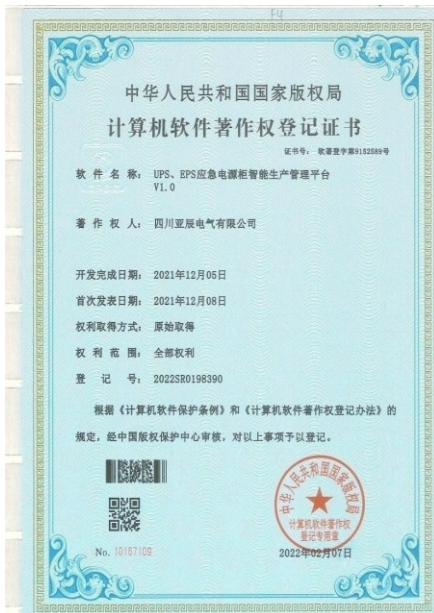
Company Qualifications and Honors: Patent Certificate



Utility model patent for a fire detection and alarm system for remote transmission of high and low voltage power distribution equipment
Utility model patent for an electrical cabinet
Utility model patent for a novel electrical cabinet



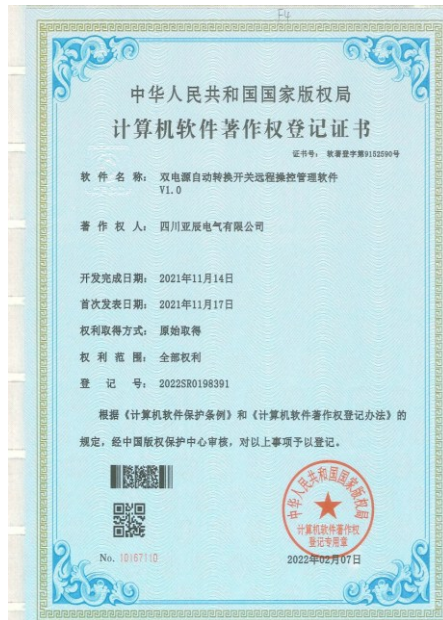
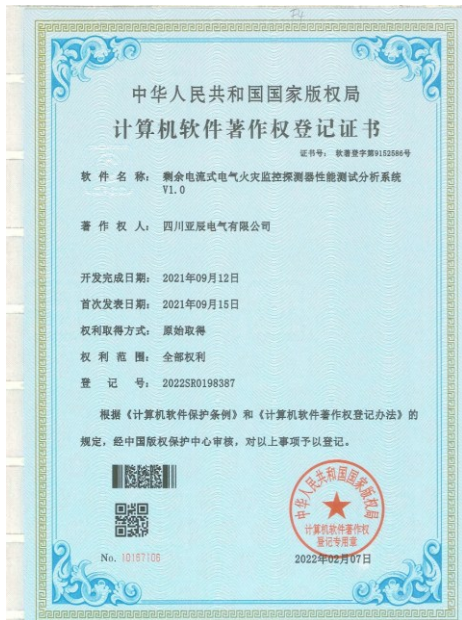
Company Qualifications and Honors: Software Copyright



UPS/EPs Emergency Power Supply Cabinet Intelligent Production Management Platform
Electronic Product R&D Database Visualized Operation and Maintenance Management System
Medical IT Isolation Power Supply Intelligent Switching Control System



Company Qualifications and Honors: Software Copyright



Residual Current Type Electrical Fire Monitoring and Detection Performance Testing and Analysis System V1.0
Dual Power Automatic Transfer Switch Remote Control and Management Software V1.0



Company production/R&D workshop

Britop
博越达

Yc
亚辰电气



Intelligent Grounding Unit (IGUHV) for High Voltage Cables

国际销售授权书



LETTER OF OFFICIAL INTERNATIONAL SALES AUTHORIZATION

授权方/Authorizer : 四川亚辰电气有限公司/Sichuan Yachen Electric Co., Ltd.
被授权方/Authorized Party : 青岛博越达国际贸易有限公司/Qingdao Britop International Trading Co., Ltd.

授权说明/Authorization Statement :

特此授权青岛博越达国际贸易有限公司开展本公司产品国际销售业务, 本授权真实合法, 有效用于全球商务合作与资质核验。
Sichuan Yachen Electric Co., Ltd. hereby authorizes Qingdao Britop International Trading Co., Ltd. to conduct international sales business of our products. This authorization is legal and valid for global business cooperation and qualification verification.

I. 授权产品/Authorized Products

四川亚辰电气有限公司旗下全系列全部产品 (含现有及授权期内新增、迭代产品), 商标与宣传资料使用许可。

All product series of Sichuan Yachen Electric Co., Ltd. (including existing, newly launched and upgraded products during the valid period), *Permission of Trademark & Marketing Material Usage Right.*

II. 授权区域 Authorized Territory

全球国际市场 (不含中国境内市场)。

Global international markets (excluding domestic China market).

III. 授权类型/Authorization Type

普通国际销售授权, 无二次转授权资格。

General international sales authorization. No sub-authorization is allowed.

IV. 授权期限/Valid Period

2026 年 1 月 1 日至 2028 年 12 月 31 日/Jan 1, 2026 – Dec 31, 2028

V. 品质与供货承诺 /Quality & Supply Commitment

1. 正品保障: 所有授权产品均为原厂正品, 符合国际出口质量标准。

Genuine Product Guarantee: All authorized products are original factory products complying with international export quality standards.

2. 稳定供货: 授权方保障海外订单稳定供货与正常交付。

Stable Supply: The authorizer ensures stable supply and timely delivery for overseas orders.

授权方/Authorizer(盖章/Seal)

Sichuan Yachen Electric Co., Ltd.

签字 Name : 许怀东 Huaidong Xu 许怀东

职务 Title: 总经理 CEO

日期 Date : 2026.7.30

被授权方/Authorized Party(盖章/Seal)

Qingdao Britop International Trading Co., Ltd.

签字 Name : 孟令明 Luming Meng Bright Meng

职务 Title: 总经理 General Manager

日期 Date : 2026.7.30

For and on behalf of
QINGDAO BRITOP INTERNATIONAL TRADING CO., LTD
青岛博越达国际贸易有限公司
Authorized Signature(s)

——Circulating current, partial discharge, main cable current, vibration, temperature, induced voltage, CT power supply

1

System Structure

2

Product Functions

3

IGUHV Appearance

4

IGUHV On-site Installation Photos





1

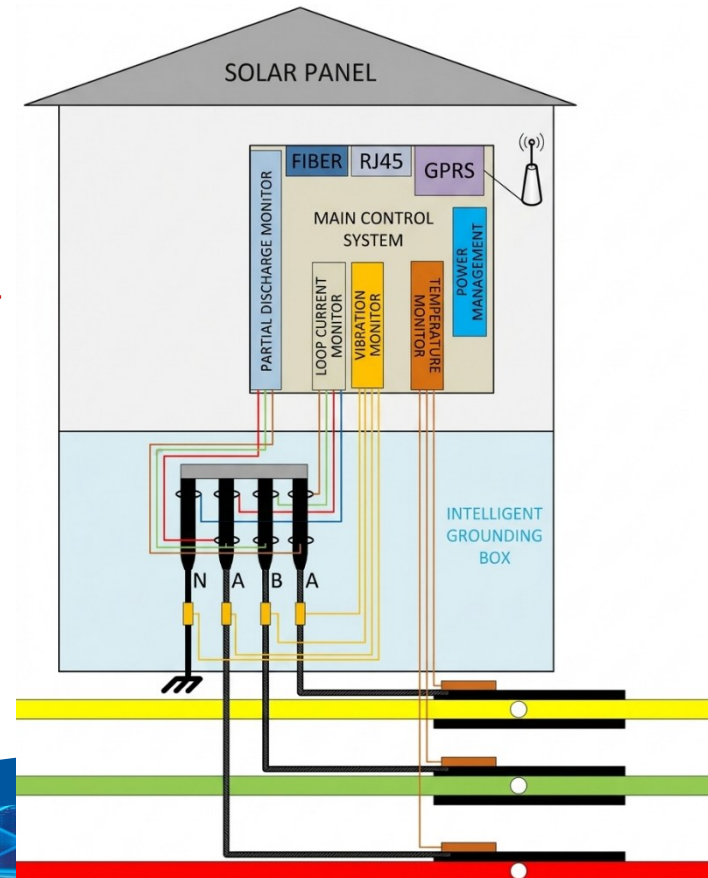
IGUHV Structure

The Intelligent Grounding Unit (IGUHV) for High Voltage Cables mainly consists of two parts:

1. Grounding busbar, responsible for the wiring of the cable sheath;
2. Control system, responsible for monitoring and controlling all data.

The control system adopts a modular structure, allowing for the addition or removal of system functions according to usage requirements, meeting the personalized customization needs of users.

——Circulating current, partial discharge, main cable current, vibration, temperature, induced voltage, CT power supply



Intelligent Grounding Unit (IGUHV) for High Voltage Cables



The Intelligent Grounding Unit (IGUHV) for High Voltage Cables has the following functions:

- Cable circulating current monitoring;
- Cable surface temperature monitoring;
- Vibration monitoring (anti-theft monitoring);
- Diverse communication methods;
- Sheath induced voltage monitoring.



3

IGUHV Appearance



IGUHV (front)

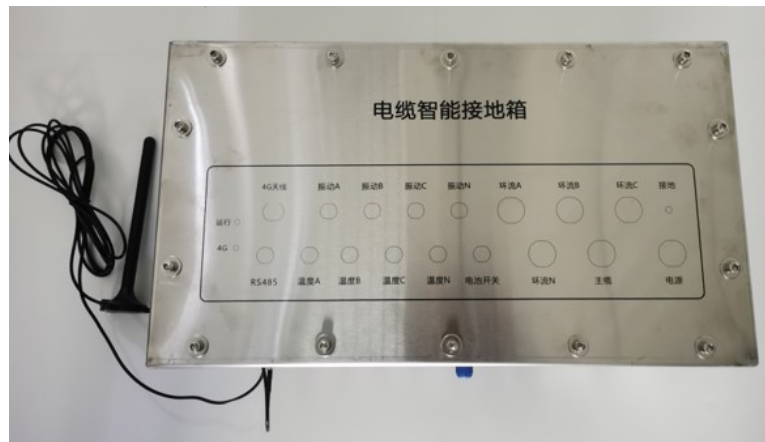


IGUHV (Internal)



3

IGUHV Appearance





3

IGUHV Appearance

Britop
博越达

Yc
亚辰电气



Front View
of the IGUHV Main Unit and Sensors



3

IGUHV Appearance

Britop
博越达

Yc
亚辰电气

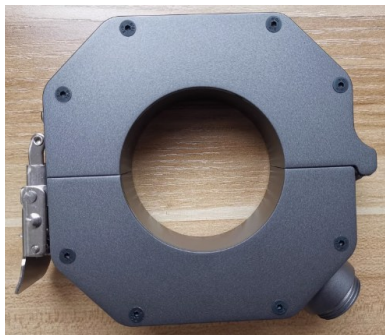
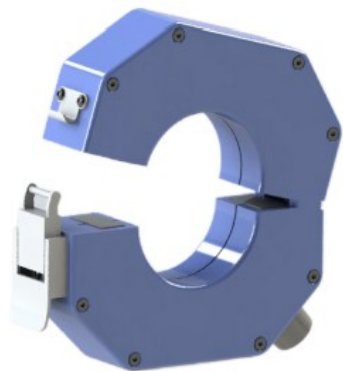


Intelligent Grounding Unit (IGUHV) for High Voltage Cables



3

IGUHV Appearance





3

IGUHV Appearance

Britop
博越达Yc
亚辰电气

- Comprehensive Online Monitoring for High-Voltage Cables
- Cable Partial Discharge Monitoring System
- Cable Sheath Circulating Current Monitoring System
- Cable Fault Location System
- Fault Location
- PD (Partial Discharge) - A/B/C/Power Freq.
- Sheath Circulating Current - A/B/C/N
- Power 1 / Power 2 / Main Power
- Traveling Wave / Fiber / GNSS)



3

IGUHV Appearance

Britop
博越达

Yc
亚辰电气



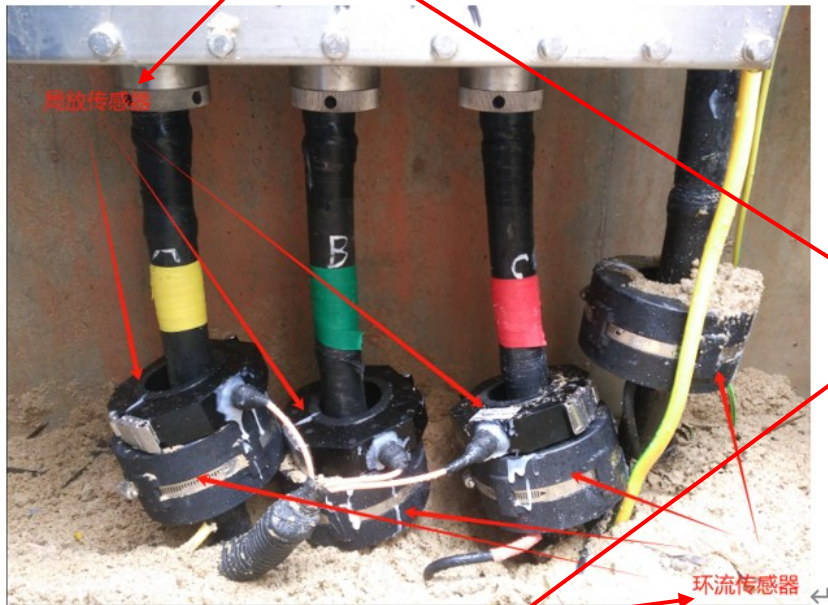
Intelligent Grounding Unit (IGUHV) for High Voltage Cables



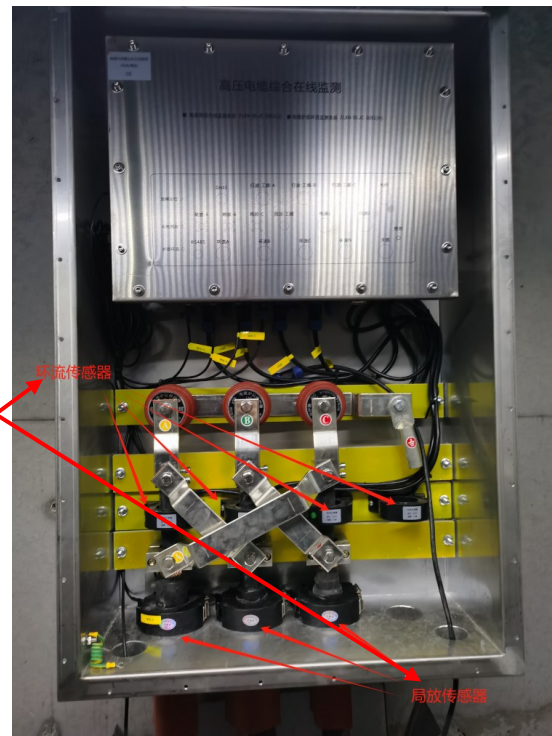
3

IGUHV Appearance

- Partial Discharge sensor



- Circulating current sensor





4

IGUHV On-site Installation Photos

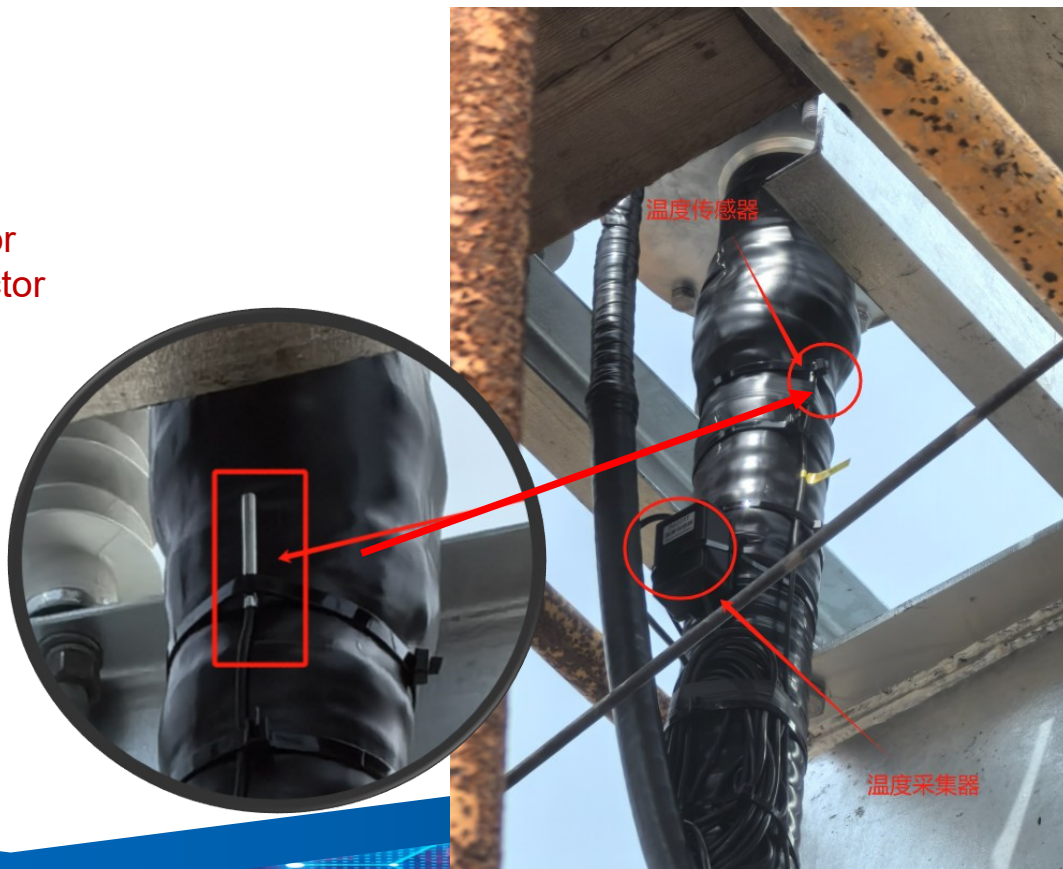




4

IGUHV On-site Installation Photos

温度传感器 -> Temperature Sensor
温度采集器 -> Temperature Collector



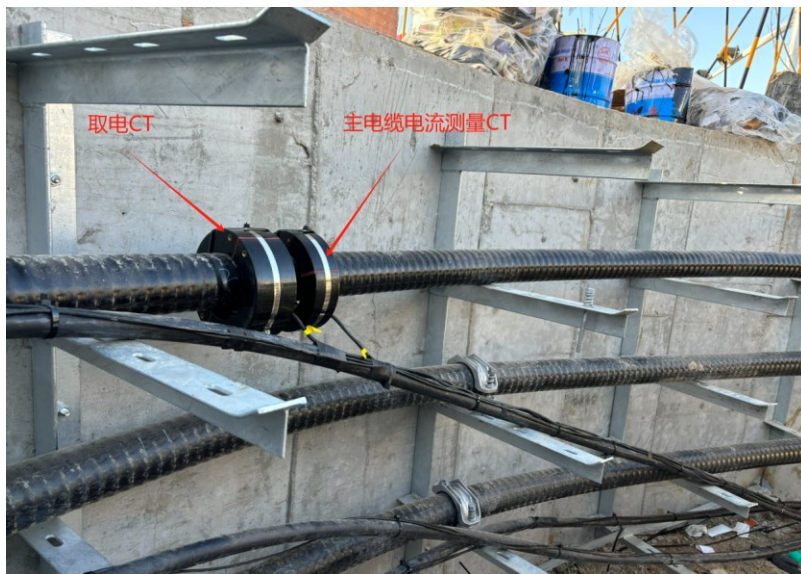


4

IGUHV On-site Installation Photos

Britop
博越达

Yc
亚辰电气



取电CT
Power Extraction CT
(Current Transformer)

主电缆电流测量CT
Main Cable Current Measurement CT
(Current Transformer)



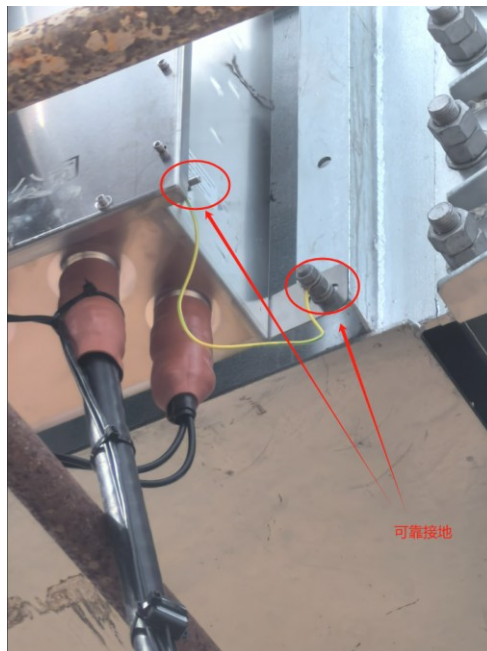
(IGUHV) Intelligent Grounding Unit
for High Voltage Cables

温度传感器
Temperature Sensor



4

Reliable Grounding





4

Grounding





4

IGUHV On-site Installation Photos

Wireless Data Transmission Antenna



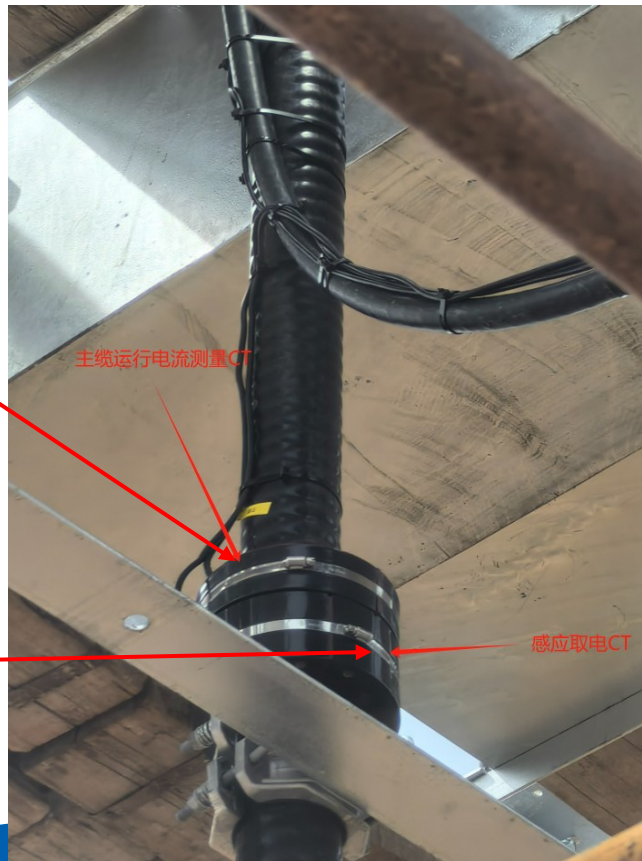


4

IGUHV On-site Installation Photos

- Main cable operating current measurement CT

- Inductive power tapping CT





4

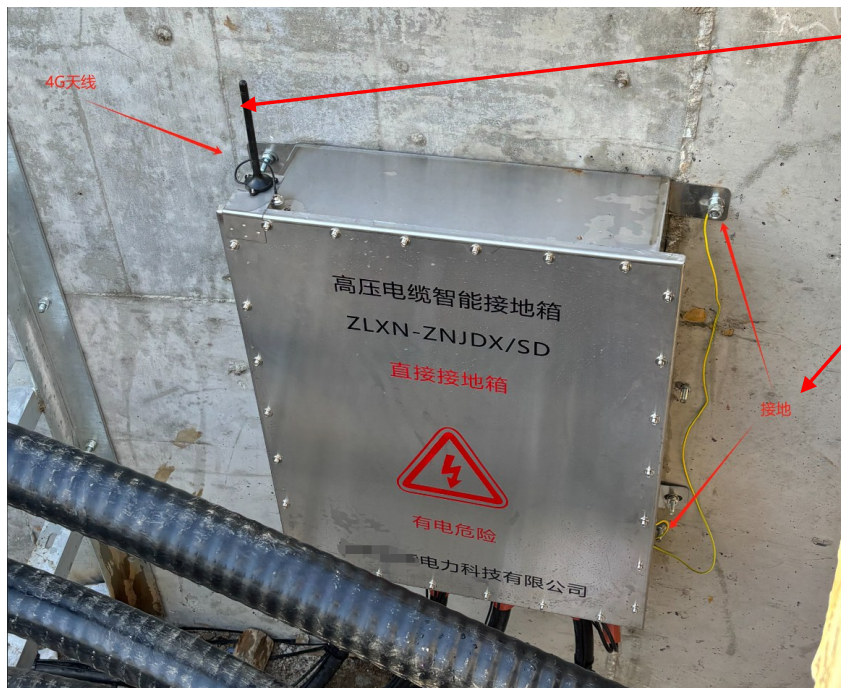
IGUHV On-site Installation Photos





4

IGUHV On-site Installation Photos



4G Antenna
Grounding





4

IGUHV On-site Installation Photos

Britop
博越达

Yc
亚辰电气



Intelligent Grounding Unit (IGUHV) for High Voltage Cables

Thank you

Smarter Monitoring, Reliable Power.

(For China market):
Sichuan Yachen Electric Co., Ltd.

Homepage:	http://www.ycdqkj.com.cn
Contact:	Mr. Xu
Tel (Wechat):	+86 13088269292
Technical:	+86 816 6394499
Commercial:	+86 816 2311298

For international sale, please contact:
Qingdao Britop International Trading Co., Ltd.

Website:	https://qdbritop.com
Contact:	Bright Meng
Email:	britop@qdbritop.com
Tel (Wechat):	+8613811458455