

中科兆明
BEIJING STL ELECTRIC CO., LTD

Product brochure
产品宣传册

北京中科兆明电气有限公司
BEIJING STL ELECTRIC CO., LTD.

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Company Profile
公司简介

智慧、安全、节能、环保
Intelligent，Safe，Energy saving，Eco-friendly













北京中科兆明电气有限公司，深耕智能照明领域 20 年，国内领先的智慧照明解决方案服务商，专注于智能照明控制系统、随车照明系统、直流电源控制柜及 LED 驱动电源的研发、生产、销售与全周期服务。我们以“让照明更安全、智慧、节能”为使命，聚焦无控制线智能核心技术，为客户提供全方位解决方案，助力照明系统智能化升级与精细化管理。

核心技术与产品矩阵

智能控制核心：以直流载波、PLC 电力载波、Zigbee、蓝牙 MESH 等无线技术为核心，打造无额外布线的智能电源及系统方案，实现“灯亮，智慧就在”。大幅简化工程布线，降低安装与改造成本，赋予照明系统高灵活性与可扩展性。

全场景解决方案：覆盖隧道、市政道路、智慧园区、商业空间、高速公路、轨道交通等领域，提供远程集中监控、能耗管理、个性化场景定制的完整控制系统。

全系列产品覆盖：涵盖无线智能调光产品线，同步提供 0-10V 调光及非调光 LED 驱动电源等常规产品，满足不同项目多样化需求，确保解决方案完整性。

工程品质 坚如磐石

严苛测试保障：每台产品出厂前 100% 全负载在线老化测试，模拟长期运行状态，交付即稳定。

全面防护与认证：防护等级覆盖 IP20-IP67，适配室内外各类恶劣环境，通过 CE、FCC、CCC、CQC 等国内外权威认证。

规模化交付能力：稳定供应大批量标准产品，高效响应工程定制化需求。

以客户需求为核心，坚持技术创新，为合作伙伴提供“免布线、智运维、提效能”的智慧照明价值。北京中科兆明电气有限公司，愿与您携手，以创新技术与可靠品质，共创光明未来！

Beijing STL Electric Co., Ltd., a leading smart lighting solutions provider in China, has been dedicated to the intelligent lighting field for 20 years. We specialize in the R&D, production, sales, and full-cycle services of intelligent lighting control systems, Vehicle-Following Lighting Systems, DC power control cabinets, and LED drivers. Guided by our mission to "Make Lighting Safer, Smarter, and More Energy-Efficient," we focus on wire-free intelligent core technologies to provide comprehensive solutions for our clients, facilitating the intelligent upgrade and refined management of lighting systems.

Core Technologies & Product Portfolio

• Intelligent Control Core: Centered on wireless technologies such as DC power line carrier, PLC power line carrier, Zigbee, and Bluetooth Mesh, we create intelligent led driver and system solutions requiring no extra wiring, embodying the concept "When light turns on, it gets smart." This significantly simplifies project wiring, reduces installation and retrofit costs, and endows lighting systems with high flexibility and scalability.

• Full-Scenario Solutions: Covering tunnels, municipal roads, smart campuses, commercial spaces, highways, rail transit, and more. We provide complete control systems featuring remote centralized monitoring, energy consumption management, and personalized scene customization.

• Comprehensive Product Range: Encompassing a wireless intelligent dimming product line, while simultaneously offering conventional products like 0-10V dimming and non-dimming LED drivers to meet the diverse needs of different projects and ensure solution completeness.

Engineering Quality: Solid as a Rock

• Rigorous Testing Assurance: Every unit undergoes 100% full-load online aging tests before leaving the factory, simulating long-term operation to ensure stability upon delivery.

• Comprehensive Protection & Certification: Protection ratings range from IP20 to IP67, suitable for various harsh indoor and outdoor environments. Products hold authoritative international and domestic certifications including CE, FCC, CCC, and CQC.

• Scalable Delivery Capacity: Capable of stable supply for large-volume standard products and efficient response to project customization requirements.

Customer needs are at our core. We persist in technological innovation to provide partners with the value of smart lighting characterized by "Wire-Free Installation, Intelligent Operation & Maintenance, and Enhanced Efficiency." Beijing STL Electric Co., Ltd. looks forward to collaborating with you to create a brighter future through innovative technology and reliable quality!















方案简介/INTRODUCTION

智能随车照明系统

Intelligent Vehicle-Following Lighting System

近年来，随着技术的发展、成熟，随车照明是一种相比传统调光效果更好、造价更低、节能效益更明显的成熟方式。随车照明系统，以分段调光的方式，跟随车辆的行驶轨迹在车辆前方提供照明，实现了“伴随式分段按需照明”的理念，并根据洞内外照度控制照明亮度，达到能够提升隧道照明环境安全性、舒适性，实现精准照明和节省能源的效果。

As technology has advanced, vehicle-following lighting has become a mature solution that outperforms conventional dimming in effect, cost, and energy efficiency. Using zoned dimming to light the path ahead of moving vehicles, it enables “accompanying, on-demand illumination,” adjusts based on inside/outside luminance, and enhances tunnel safety, comfort, and energy savings.

方案优势 / ADVANTAGES

智慧/ Smart

- 智能互联
- 多元感知
- 精准追踪
- 实时动态调光

- Intelligentconnectivity
- Multi-sensing
- Precise tracking
- Real-time dynamic dimming

降本/ Cost-saving

- 节省50%动力线缆
- 节省100%调光线缆
- 电费节省35%-80%
- 能耗分析
- 灯具寿命延长

- 50% less power cable
- 100% less dimming cable
- 35%–80% electricity saving
- Energy analysis
- Extended luminaire life

增效/ Efficiency

- 施工简单快速
- 实时状态监测
- 故障精准定位
- 预防式维护

- Quick & easy installation
- Real-time monitoring
- Accurate fault location
- Predictive maintenance

安全/ Safety

- 抑制“黑白洞效应”
- 缓解“斑马纹效应”
- 应急联动主动干预

- Suppresses “black/white hole effect”
- Mitigates “zebra effect”
- Active emergency linkage & intervention

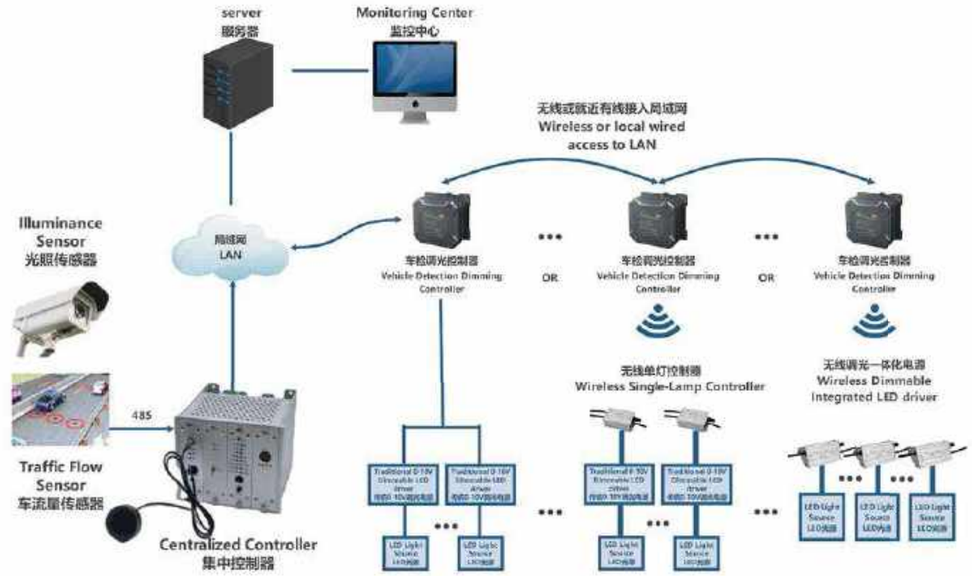
应用场景 / APPLICATIONS

隧道照明
Tunnel lighting

市政照明
Street lighting

智能照明控制方案

系统构成 / SYSTEM COMPOSITION



无线调光 · 伴随式随车照明
WIRELESS DIMMING WITH VEHICLE-FOLLOWING LIGHTING

- Zigbee 2.4G自组网，无需控制线，灵活可靠
- Zigbee 2.4G self-organizing network – no control wiring, flexible & reliable

- 集中管理，自愈网络
- Centralized management, self-healing network;

- 支持单灯、分组、区域精准控制
- Precise single-lamp, group, zone control

- 1～100%无级调光，亮度渐变与场景平滑切换
- 1–100% stepless dimming, smooth brightness transitions & scene switching

- Zigbee驱动电源采用恒流恒压控制，保证光源永不超载
- The Zigbee driver uses constant current and constant voltage control to ensure that the light source never overloads.

快速施工
RAPID INSTALLATION

- **无序安装，即装即用**
  灯具无需按ID顺序排列，任意安装，大幅缩短工期；系统自动组网，安装调试简单快捷。
- **No Sequence Required**
  Install luminaires in any order – drastically reduces construction time. System self-organizes, simple and quick installation and commissioning

- **手机APP智能绑定**
  扫描灯具二维码即可完成地址绑定，防重复机制确保准确；APP支持离线操作，隧道内无网络信号也可正常施工。
- **Smart APP Binding**
  Scan luminaire QR codes for address binding with anti-duplicate protection; APP works offline, perfect for tunnel environments with no signal.

- **红外在线编程**
  通过红外通讯进行参数配置和调试，无需额外工具，灵活便捷。
- **Infrared Programming**
  Configure and debug via infrared communication – no extra tools needed, simple and flexible.

- **无需控制线缆**
  无线调光技术彻底免除控制线缆敷设，节省线材与人工，综合施工效率提升50%以上。
- **No Control Cables Required**
  Wireless dimming eliminates control cables, saving materials and labor, boosting overall installation efficiency by over 50%.

智能照明控制方案

智慧照明 / SMART LIGHTING

灯灯互联
Light-to-Light Link

隧道与管理中心互联
Tunnel ↔ Control Center

洞内外亮度互联
In ↔ Out Luminance

灯具与交通状况互联
Light ↔ Traffic

照明系统与其他系统互联
Lighting ↔ Other Systems

多逻辑自适应控制
Energy Analysis

天气、天文时钟、固定时钟、洞内外亮度、车流量、恒照度等
Adaptive control based on weather, astronomical clock, fixed schedule, inside/outside luminance, traffic flow, constant illuminance, etc.

实时联动感知
Real-time Coordinated Sensing

实时联动感知，自动调节照度，保障行车安全与舒适
Real-time coordinated sensing automatically adjusts brightness for safety & comfort

手动控制 / 应急模式
Manual Override & Emergency Mode

精准车辆跟踪
Precise Vehicle Tracking

洞口预触发，隧道内连续追踪
Pre-trigger at portal, continuous tracking inside tunnel

预防式维护
Predictive Maintenance

预防式维护，预测潜在故障，提升维护效率
Predictive maintenance anticipates failures, boosting efficiency



能耗分析
Energy Analysis

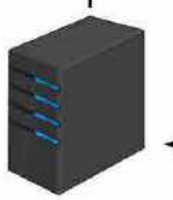
实时数据随时掌握，能耗管理的“透明化”
Real-time data at a glance
Transparency energy management

实时故障报警
Real-time Fault Alarm

实时故障报警、精准定位，无需人工巡检
Real-time fault alarm, precise location – no manual inspection

实时信息
Real-time Information

灯具状态全时掌握，实时监测每盏灯的电流、电压、功率及故障状态
24/7 luminaire status awareness
Platform monitors current, voltage, power, fault status of each luminaire in real time



Internet

响应“双碳”目标的刚性需求
Meeting the rigid demand of the "dual-carbon" goals

动态调光，降低无效能耗 / DYNAMIC DIMMING Which Reduces Unnecessary Power Consumption

无车时段：亮度降至国标最低，避免“全亮待机”
No-vehicle period: brightness reduced to the national standard minimum, avoiding "full-brightness standby"

调光深度可达1% (Dimming depth can reach 1%)

光环境平滑过渡：无感调光，车未至，灯先亮
Smooth Transition of Light Environment:
Inductive Dimming – Lights Ahead,Before You Arrive.

随车而行：仅车辆前后方100-200米保持高亮，其余区域维持基础照明
Following the vehicle: only the area 100-200 meters ahead and behind the vehicle remains at high brightness, while other areas maintain basic lighting

洞内外环境实时联动
Real-time interaction between the inside and outside of the tunnel

洞口预触发
Tunnel portal pre-triggering



Zigbee无线调光(HMC-Z系列)
Zigbee Wireless Dimmable (HMC-Z Series)

单灯控制器+原有三合一电源
LED controller+original LED driver

车检调光控制器(STL.GW.ZB.RD100)
Vehicle Detection Dimming Controller

节能率35%—80%，每经过一辆车，可节省1.5度电。(2.5km隧道，对比传统智能调光)
Energy saving rate of 35%-80%，Each passing vehicle can save 1.5 kWh of electricity.
(2.5km tunnel, compared with traditional intelligent dimming)

随车照明系统方案一

Vehicle Lighting System Solution I

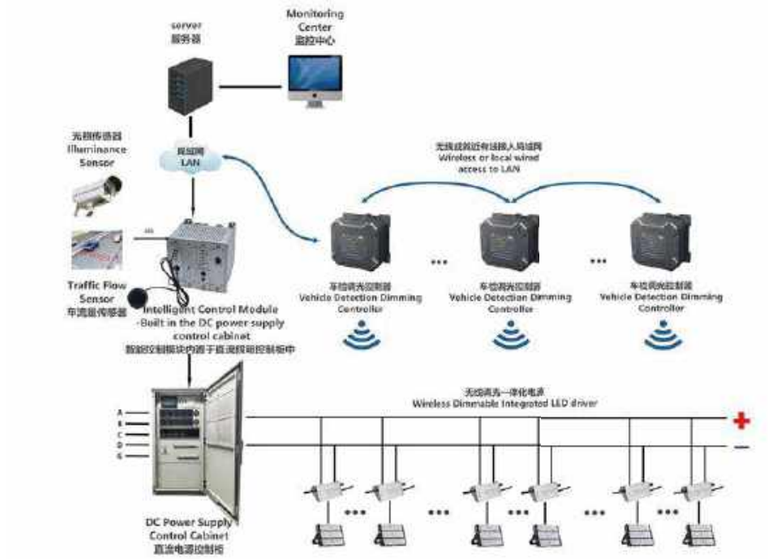
直流供电方案

DC Power Supply Solution

在随车照明基础上结合直流供电方案，可进一步提升经济效益。直流供电能提供更优电能质量，减少转换损耗，可在随车照明节能基础上再降耗10%-15%。同时，直流采用两芯线缆，相比交流多芯线可大幅降低采购与铺设成本：400V方案节约电缆30%-50%，750V方案节约50%-75%。该方案兼具随车照明与直流供电双重优势，在建设成本低于传统交流方案的同时，实现更强功能与更高智能化。

Combining DC power with vehicle-following lighting boosts cost-effectiveness. DC offers cleaner power, cuts conversion loss, and saves an extra 10-15% energy on top of vehicle-following savings. Its two-core cable also reduces wiring costs by 30-75% compared to AC (30-50% for 400V, 50-75% for 750V). This integrated solution delivers smarter performance at a lower upfront investment than conventional AC systems.

方案架构图 / PROGRAM ARCHITECTURE DIAGRAM



方案优势 / ADVANTAGES

消除交直流转换损耗
eliminates AC/DC conversion loss

节能35%-80%
35%-80% energy saving

节省供电线缆30%-75%
Saves 30%-75% on power cables

有效延缓LED芯片的光衰速度
Effectively slows LED chip degradation

大幅延长灯具使用寿命，灯具寿命可达10年以上
Significantly extends luminaire lifespan to over 10 years

配套硬件 / SUPPORTING HARDWARES

直流电源控制柜
DC power control cabinet



详见PAGE19

车检调光控制器
Vehicle Detection Dimming Controller



详见PAGE16

LED 驱动电源HMC-Z系列
LED DRIVER HMC-Z Series
Zigbee无线调光系列
Zigbee Wireless Dimmable Series



详见PAGE25

随车照明系统方案二

Vehicle Lighting System Solution II

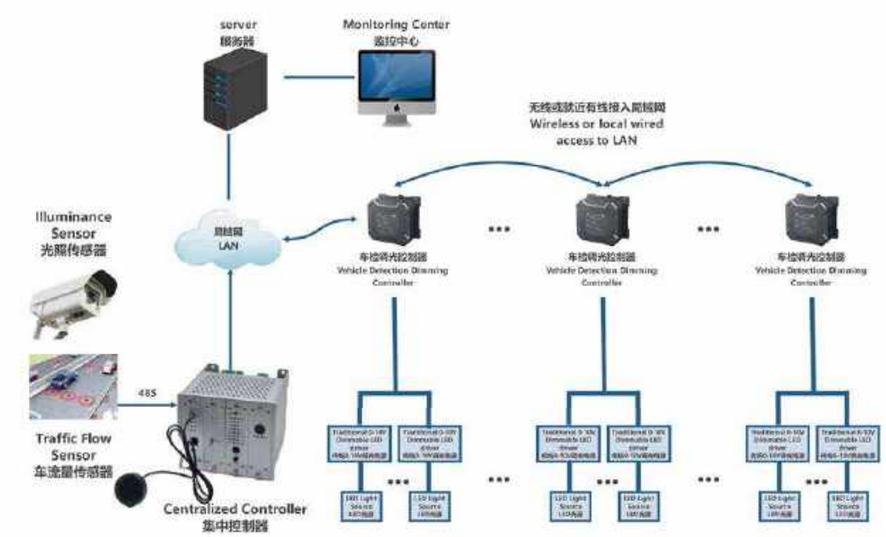
三合一调光+随车照明

3-in-1Dimming + Vehicle-Following Lighting

在三合一调光系统的基础上，增加车检调光控制器和集中控制器，即可组成为完整的随车照明系统，实现分伴随式分段按需照明，适用于各类新建和改造项目，结构简单，施工快速，可充分利用现有灯具与电源，最大程度降低初始投入，实现原有设备的高效复用。通过显著节约电费，该方案可在1-2年内收回投资成本。

Based on the 3-in-1 dimming system, a complete vehicle-following lighting system can be formed by adding a vehicle detection dimming controller and a centralized controller, realizing segmented on-demand lighting in a follow-up mode.
It is applicable to various new construction and renovation projects, featuring a simple structure and fast construction.
The system can make full use of existing lamps and power supplies, minimize initial investment to the greatest extent, and achieve efficient reuse of original equipment.
With significant electricity cost savings, the solution allows for investment payback within 1–2 years.

方案架构图 / PROGRAM ARCHITECTURE DIAGRAM



方案优势 / ADVANTAGES

低改造成本：仅增配少量设备
Low retrofit cost: Only few devices added

1-2年回本：电费节约显著
1-2 yr payback: Significant electricity savings

设备全复用：原有灯具完全利用
Full reuse: Existing luminaires & sensors retained

快速施工
Fast installation

配套硬件 / SUPPORTING HARDWARES

智能照明集中控制器
Intelligent Central Lighting Controller
STLS.LED.4DA



详见PAGE14

车检调光控制器
Vehicle Detection Dimming Controller **STL.GW.ZB.RD100**



详见PAGE16

LED驱动电源HMC-M系列
LED DRIVER HMC-M Series
三合一调光系列
3-in-1 Dimmable Series
（可利旧）(Retrofittable)



详见PAGE29

随车照明系统 方案三

Vehicle Lighting System Solution III

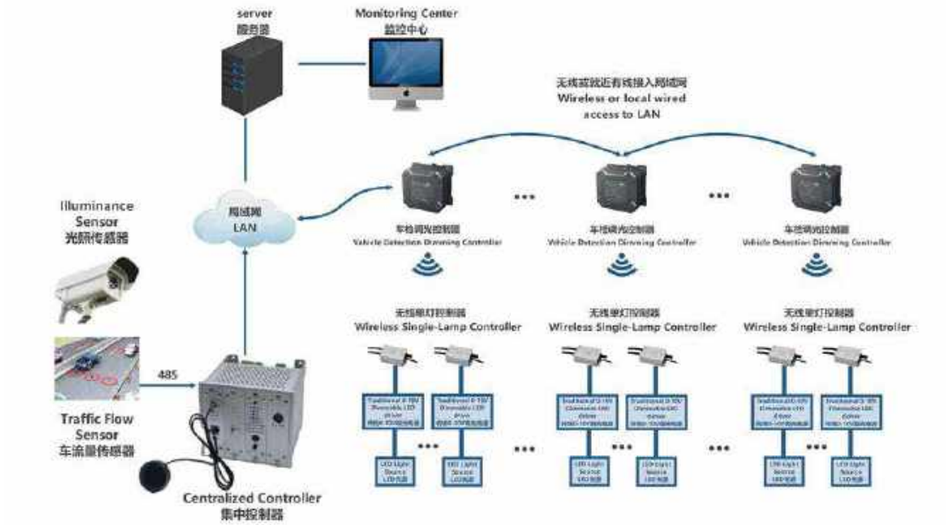
三合一调光+ 无线单灯控制器+ 随车照明

3-in-1Dimming + Single-Lamp Controller+ Vehicle-Following Lighting

在三合一调光系统的基础上，增加无线单灯控制器，车检调光控制器和集中控制器，即可组成为完整的随车照明系统，且具备灯具状态检测、实时故障报警等功能，适用于各类新建和改造项目，结构简单，施工快速，可充分利用现有灯具与电源，最大程度降低初始投入，实现原有设备的高效复用。通过显著节约电费，该方案可在1-2年内收回投资成本。

Based on the 3-in-1 dimming system, a complete vehicle-following lighting system can be formed by adding a wireless single-lamp controller, a vehicle detection dimming controller and a centralized controller.
The system is equipped with functions such as luminaire status monitoring and real-time fault alarm.
It is applicable to various new construction and renovation projects, featuring a simple structure and fast construction.
The system can make full use of existing lamps and power supplies, minimize initial investment to the greatest extent, and achieve efficient reuse of original equipment.
With significant electricity cost savings, the solution allows for investment payback within 1–3 years.

方案架构图 / PROGRAM ARCHITECTURE DIAGRAM



方案优势 / ADVANTAGES

低改造成本：仅增配少量设备
Low retrofit cost: Only few devices added

1-3年回本：电费节约显著
1-3 yr payback: Significant electricity savings

设备全复用：原有灯具完全利用
Full reuse: Existing luminaires & sensors retained

灯具状态实时监测、报警
Real-time luminaire status monitoring and alarm

快速施工
Fast installation

配套硬件 / SUPPORTING HARDWARES

智能照明集中控制器
Intelligent Central Lighting Controller **STLS.LED.4DA**



详见PAGE14

车检调光控制器
Vehicle Detection Dimming Controller **STL.GW.ZB.RD100**



详见PAGE16

无线单灯控制器
Wireless Single-Lamp Controller
STL.WSC.LED



详见PAGE17

LED驱动电源HMC-M系列
LED DRIVER HMC-M Series
三合一调光系列
3-in-1 Dimmable Series
（可利旧）(Retrofittable)



详见PAGE29

随车照明系统 方案四

Lighting System Solution IV

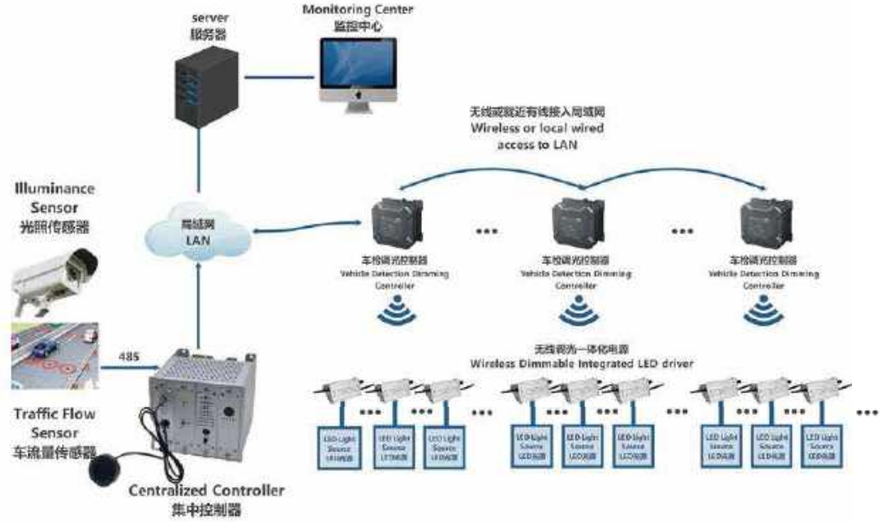
Zigbee无线电源+ 随车照明

Zigbee wireless LED Driver+ Vehicle-Following Lighting

本方案由无线LED电源、车检调光控制器和集中控制器组成。具备灯具状态检测、实时故障报警等功能，适用于各类新建和改造项目，结构简单，施工快速。通过显著节约电费，该方案可在1-3年内收回投资成本。

This solution consists of a wireless LED driver, a vehicle detection dimming controller, and a centralized controller. It features luminaire status monitoring and real-time fault alarm functions, and is suitable for various new construction and renovation projects with its simple structure and fast installation. With significant electricity cost savings, the solution can achieve investment payback within 1–3 years.

方案架构图 / PROGRAM ARCHITECTURE DIAGRAM



方案优势 / ADVANTAGES

灯具状态实时监测、报警
Real-time luminaire status monitoring and alarm

zigbee驱动电源采用恒流恒压模式，保证光源用不超载
The Zigbee LED driver operates in constant current and constant voltage mode, ensuring the light source is never overloaded.

无线控制，无需敷设控制线
Wireless control, no control cables required

1-3年回本：电费节约显著
1-3 yr payback: Significant electricity savings

快速施工
Fast installation

配套硬件 / SUPPORTING HARDWARES

智能照明集中控制器
Intelligent Central Lighting Controller
STLS.LED.4DA



详见PAGE14

车检调光控制器
Vehicle Detection Dimming Controller **STL.GW.ZB.RD100**



详见PAGE16

LED 驱动电源HMC-Z系列
LED DRIVER HMC-Z Series
Zigbee无线调光系列
Zigbee Wireless Dimmable Series



详见PAGE25



方案简介/INTRODUCTION

HVDC直流智能照明控制方案

HVDC Intelligent Lighting Control Scheme

相较于传统交流供电方案，直流智能照明系统通过直流电源控制柜将输入电压转换为400V/750V的直流电，能够大幅减小电缆线径，同时延长灯具寿命、提升电网洁净度。系统采用电力载波调光，无需单独敷设控制线缆，实现电源、驱动与调光一体化，终身匹配——只要灯亮，调光功能就完好存在。

Unlike AC systems, this DC intelligent lighting converts power to 400V/750V DC, reducing cable size, extending lamp life, and improving grid cleanliness. It uses power carrier dimming, eliminating separate control cables, with fully integrated components ensuring dimming works as long as the light is on.

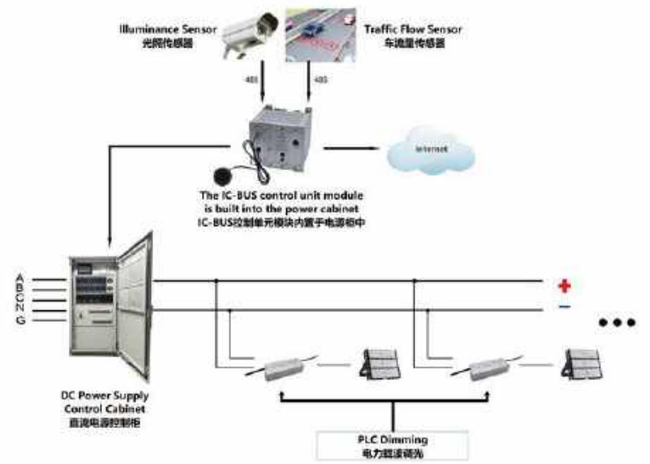
方案优势 / ADVANTAGES

节省 save 50% 动力线缆 power cables	节省 save 100% 调光控制线缆 dimming control cables	延长灯具使用寿命1-2倍 Extend the service life of the light by 1-2 times
施工工期缩短一半 The construction period can be cut in half	智能化程度大幅提升 The degree of intelligence has been greatly improved	高精度、高功率因数、高寿命 High precision, high power factor, long lifespan
直流电力载波调光 DC power line communication dimming	灯具电源满足400V/750V供电安规要求，取得国内首家CQC认证 The LED driver meets the safety requirements of 400V/750V power supply, and has obtained the first CQC certification in China	

应用场景 / APPLICATIONS

- 隧道照明 Tunnel lighting
- 市政照明 Street lighting
- 机场/车站照明 Airport/station lighting
- 景观照明 Landscape lighting
- 工业照明 Industrial lighting

系统构成 / SYSTEM COMPOSITION



系统特点 / SYSTEM CHARACTERISTICS

- 直流400V/750V供电，安全稳定，直流供电只需要2芯线缆，对比交流供电5芯线缆，线缆可节省50%
- 通过电力载波调光控制，无需调光控制线
- 自适应电缆正反接，适配器线缆接反时，设备仍能正常工作及调光
- 内置智能照明控制程序，无需二次编程
- 支持单灯控制、分组控制、回路控制

- DC 400V/750V power supply, safe and stable. DC power supply only requires 2-core cables compared to 5-core cables needed for AC power supply, saving 50% on cables
- Controlled by power line communication, no dimming control line is required
- Adaptive cable is reversed, when the adapter cable is reversed, the device can still work and be dimmed
- Built-in intelligent lighting control program, no need for secondary programming
- Support single lamp control, group control, circuit control

配套硬件 / SUPPORTING HARDWARES

直流电源控制柜
DC power control cabinet



详见PAGE19

HMC-D系列LED驱动电源
HMC-D Series LED driver



详见PAGE23

方案简介/ INTRODUCTION

PLC电力载波调光控制方案

PLC Power Line Communication Dimming Control Scheme



PLC电力载波调光控制方案，通过电力线进行与灯具电源的通讯，实现通信、控制、数据采集、传感感知等功能，建立更智能的智慧照明系统，提升照明系统的安全性、便利性、舒适性、节能性。

The PLC dimming control scheme communicates with the LED drivers through the power line to realize the functions of communication, control, data collection, sensing and perception, establishes a more intelligent lighting system, and improves the safety, convenience, comfort and energy saving of the lighting system.

方案优势 / ADVANTAGES

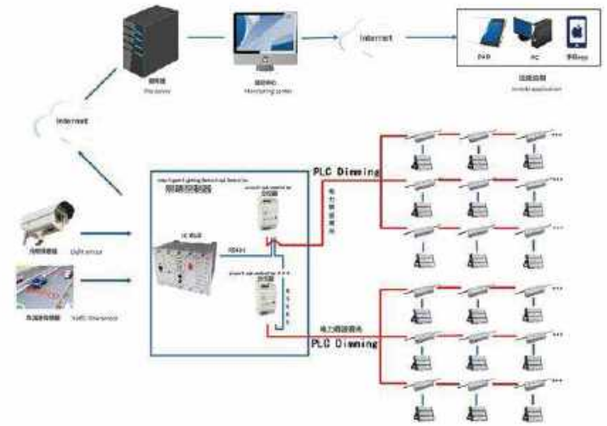
电力载波调光，无需控制线
Power line communication, without control lines

- 智能照明控制 Intelligent lighting control
- 单灯生态环境监测 Single light operational environment assessment and alarm
- 单灯巡检 Single-light inspection
- 单灯“4遥”控制 Single light "4 remote" control

应用场景 / APPLICATIONS

- 隧道照明 Tunnel lighting
- 市政照明 Street lighting
- 机场/车站照明 Airport/station lighting
- 景观照明 Landscape lighting
- 工业照明 Industrial lighting

系统构成 / SYSTEM COMPOSITION



系统特点 / SYSTEM CHARACTERISTICS

- 利用供电线路通信:无需另外布线，易施工、成本低
- 10%-100%无极调光，可关断
- 智能调光，节能减排，延长灯具寿命
- 远程调整参数设置，方便管理，提高效率
- 单灯故障报警，灯具模组故障报警，自适应剩余功率，保证灯具永不超载
- 支持单灯控制、支路控制、分组控制
- 驱动器生态环境评估及报警
- 单灯故障自动上报

- Utilize power line communication: No need for additional wiring for dimming control, easy to construct and low cost
- Support single light control, circuit control, group control
- 10%-100% stepless dimming, can be turned off
- Single light fault alarm, LED module fault alarm, adaptive residual power, to ensure that the lamp will never be overloaded
- LED driver operational environment assessment and alarm
- Intelligent dimming, energy saving, prolonging the life of lamps
- Automatic reporting of single lamp faults
- Adjust parameter settings remotely, which is convenient for management and improves efficiency

配套硬件 / SUPPORTING HARDWARES

智能照明集中控制器
Intelligent Lighting Centralized Controller



详见PAGE15

HMC-P系列LED驱动电源
HMC-P series LED driver



详见PAGE27

照明回路分控器
Lighting circuit sub-controller



详见PAGE18



智能控制系统
Intelligent Lighting Control System

智能照明集中控制器
—— PLC、PWM、0-10V、Zigbee、随车照明控制一机通

Intelligent lighting centralized controller
PLC, PWM, 0-10V, Zigbee, Vehicle-following lighting control with one machine

一机多用，内含LED三合一照明调光控制、PWM照明调光控制、交流电力载波调光控制、直流电力载波调光控制、Zigbee无线调光控制、随车照明调光控制。

One machine with multiple functions, integrating LED 3-in-1 dimming control, PWM dimming control, AC PLC dimming control, DC PLC dimming control, Zigbee wireless dimming control, and vehicle-following lighting dimming control.

含照明自适应控制单元，具有调光、调色温功能，不低于12个控制回路，可扩展为16个回路；

Lighting adaptive control unit, with dimming, color temperature dimming function, no less than 12 control circuits, can be expanded to 16 circuits

- 支持与分控器连接，具备 RJ45、RS485、RS232接口
- 支持灯光开关、亮度、色温及场景控制
- 支持工况模式控制、时序控制、天文控制
- 支持交通量、亮度自动联动控制
- 支持多台智能照明控制器联机和互相控制，隧道全线图形化控制及显示界面
- 支持脱网独立运行

- support connection with sub controllers, with RJ45, RS485, RS232 interfaces
- support for lighting switch, brightness, color temperature and scene control
- support working condition mode control, timing control, astronomical control
- support traffic volume, brightness automatic linkage control
- support for multiple intelligent lighting controllers online and mutual control, tunnel full-line graphical control and display interface
- support off-grid independent operation

智能照明集中控制器 / INTELLIGENT CENTRAL LIGHTING CONTROLLER
STLS.LED.3M

- 供电电压：90-305Vac
- 通讯接口：1路RS232、4路RS485、1路CAN、1路无线接口（Zigbee或4G）
- 3路4-20mA隔离AI输入
- 5DI隔离输入，带车检输入接口
- 1路手动调光接口,手动调光旋钮，手动/自动调光转换
- 内置多种LED调光控制程序
- 无级调光控制，全工况调光无闪烁，平滑调光
- 外形尺寸：119.5x133x158mm
- 工作温度：-20°C～+60°C



- Voltage:90-305Vac
- Communication interface: 1 way RS232, 4 ways RS485, 1 way CAN, 1 way wireless interface (Zigbee or 4G)
- 3-channel 4-20mA isolated AI input
- 5DI isolated input with car check input interface
- 1 way manual dimming interface, manual dimming knob, manual/automatic dimming conversion
- Built-in a variety of LED dimming control program
- Stepless dimming control, full working condition dimming without flicker, smooth dimming
- Dimension: 119.5x133x158mm
- Operating temperature: -20°C to +60°C

智能照明集中控制器 / INTELLIGENT CENTRAL LIGHTING CONTROLLER
STLS.LED.4DA

- 输入电压:90-305Vac
- 通讯接口:1路RS232、4路RS485、1路CAN、1路RJ45、1路无线接口（Zigbee或4G）
- 3路4-20mA隔离AI输入；
- 4路0-10V隔离输出调光接口；
- 具有输出短路保护功能；
- 4路调光百分比显示；
- 5DI隔离输入，带车检输入接口；
- 1路手动调光接口，手动调光旋钮，手动/自动调光转换；
- 内置多种LED调光控制程序；
- 无级调光控制，全工况调光无闪烁，平滑调光；
- 外形尺寸:155x133x158mm；
- 工作温度:-20°C ~ +60°C；



- Input Voltage: 90–305 Vac
- Communication interface: 1 way RS232, 4 ways RS485, 1 way CAN, 1 way RJ45, 1 way wireless interface (Zigbee or 4G)
- Analog Inputs: 3 channels, 4–20mA isolated AI input
- Dimming Outputs: 4 channels, 0–10V isolated dimming interface
- Protection: Output short-circuit protection
- Display: 4 channel dimming percentage display
- Digital Inputs: 5 DI isolated inputs, with vehicle detection interface
- Manual Control: 1 manual dimming interface with knob, manual/automatic dimming switch
- Built-in Programs: Multiple LED dimming control programs
- Dimming Performance: Stepless dimming control, flicker free under all operating conditions, smooth dimming transition
- Dimensions: 155×133×158mm
- Operating Temperature: –20°C to +60°C

智能照明集中控制器 / INTELLIGENT CENTRAL LIGHTING CONTROLLER
STLS.LED.4DA.12DO

- 供电电压：90-305Vac
- 通讯接口：1路RS232、4路RS485、1路CAN、1路无线接口（Zigbee或4G）
- 3路4-20mA隔离AI输入
- 4路0-10V隔离输出调光接口
- 4路调光百分比显示
- 5DI隔离输入，带车检输入接口
- 4-12路AC230V 5ADO输出
- 1路手动调光接口，手动调光旋钮，手动/自动调光转换
- 内置多种LED调光控制程序
- 无级调光控制，全工况调光无闪烁，平滑调光
- 外形尺寸：190.5x133x158mm
- 工作温度：-20°C～+60°C



- Voltage:90-305Vac
- Communication interface: 1 way RS232, 4 ways RS485, 1 way CAN, 1 way wireless interface (Zigbee or 4G)
- 3-channel 4-20mA isolated AI input
- 4-channel 0-10V isolated output dimming interface
- 4-Channel Dimming Percentage Display
- 5DI isolated input with car check input interface
- 4-12 channels AC230V 5A DO output
- 1 way manual dimming interface, manual dimming knob, manual/automatic dimming conversion
- Built-in a variety of LED dimming control program
- Stepless dimming control, full working condition dimming without flicker, smooth dimming
- Dimension: 190.5x133x158mm
- Operating temperature: -20°C to +60°C

智能照明调光控制柜 / INTELLIGENT DIMMING CONTROL CABINET
STLS.LED.4DA.CB

- 输入电压：90-305VAC；
- 通讯接口：1路RS232、4路RS485、1路CAN、1路RJ45、1路Zigbee/4G；
- 3路3-20mA隔离AI输入；
- 4路0-10V隔离输出调光接口；
- 具有输出短路保护功能；
- 4路调光百分比显示；
- 5DI隔离输入，带车检输入接口；
- 1路手动调光接口，手动调光旋钮，手动/自动调光旋钮；
- 内置多种LED调光控制程序；
- 无极调光控制，全工况调光无闪烁，平滑调光；
- 防护等级：IP54；
- 工作电流：≤1A；
- 工作环境温度：-20°C~+60°C；
- 工作环境湿度：0-95%RH无冷凝；
- 触摸屏控制：7寸电容触摸屏，或定制；



- Input Voltage: 90–305VAC
- Communication interface: 1 way RS232, 4 ways RS485, 1 way CAN, 1 way RJ45, 1 way wireless interface (Zigbee or 4G)
- Analog Inputs: 3 channels, 3–20mA isolated AI input
- Dimming Outputs: 4 channels, 0–10V isolated output dimming interface
- Protection: Output short circuit protection
- Display: 4 channel dimming percentage display
- Digital Inputs: 5 DI isolated inputs, with vehicle detection interface
- Manual Control: 1 manual dimming interface with knob, manual/automatic dimming switch
- Built in Programs: Multiple LED dimming control programs
- Dimming Performance: Stepless dimming control, flicker free under all operating conditions, smooth dimming
- Protection Rating: IP54
- Operating Current: ≤1A
- Operating Temperature: –2°C to +60°C
- Operating Humidity: 0–95%RH (non condensing)
- Touchscreen Control: 7 inch capacitive touchscreen, customizable

车检调光控制器 / VEHICLE DETECTION DIMMING CONTROLLER
STL.GW.ZB.RD100

性能特点：
- 具有无线网关功能，可实现有线RJ45、无线双重组网方式，数据传输方式更灵活更安全可靠；
- Zigbee 2.4G通讯，去中心化，自组网；
- 支持RS485通信方式进行设备调试；
- 支持APP蓝牙参数设置

技术参数：
- 通讯方式：Zigbee 2.4G；蓝牙；RJ45
- 输入：90-305VAC；
- 输出：2路0-10VDC，输出短路保护；
- 探测及性能：雷达探测，探测距离100米
- 工作环境温度：-20°C~+60°C；
- 工作环境湿度：0-95%RH，无冷凝；
- 防护等级：IP67；
- 阻燃等级：V0 级；
- 响应时间：＜300ms；
- 功率：≤1W；



Features:
- Functions as a wireless gateway, supporting hybrid wired (RJ45) and wireless networking for flexible, secure, and reliable data transmission.
- Zigbee 2.4G communication, decentralized, self-organizing network.
- Supports device debugging via RS485 communication.
- Supports APP and Bluetooth parameter settings

Technical Parameters:
- Communication: Zigbee 2.4G; Bluetooth; RJ45
- Input: 90-305VAC
- Output: 2 way 0-10VDC, with short-circuit protection
- Detection & Performance: Radar detection, range up to 100 meters
- Operating Temperature: -20°C to +60°C
- Operating Humidity: 0-95% RH, non-condensing
- Protection Rating: IP67
- Flame Retardant Rating: V0
- Response Time: <300ms
- Power Consumption: ≤1W

无线单灯控制器 / WIRELESS SINGLE-LAMP CONTROLLER
STL.WSC.LED

- 具有调光控制功能，可实现灯具回路、分组、单灯亮度无极调节，采用无线传输及组网；
- Zigbee 2.4G无线通讯、长距离、高可靠性自组网；
- 具有红外数据通讯功能，支持PC或APP红外在线编程；
- 支持无序安装，安装时无需依据ID号顺序施工；具备手机APP扫码识别ID及设备信息功能；
- 具备防止ID号重复功能，APP支持无网络环境下操作；可广播、组播、单播控制；
- 可以采集并检测上报电流、电压、功率、电量等参数；
- 具备灯具故障检测功能、可以采集过压、欠压、过流信息，并按照设置主动上报；

技术参数



- 输入：90-305VAC；
- 输出：0-10Vdc/PWM调光接口；
- 100mA，输出短路保护；
- 工作环境温度：-20°C~+60°C；
- 工作环境湿度：0-95%RH无冷凝；
- 防护等级：IP67；
- 防雷等级：6KV/10KV；
- 响应时间：＜300ms；
- 额定功率：≤1W；

Features:

- Features dimming control, enabling stepless brightness adjustment for lighting circuits, groups, and individual lamps via wireless transmission and networking.
- Zigbee 2.4G wireless communication with long distance and high reliability.
- Mesh decentralized self-organizing network.
- Equipped with infrared data communication and supports infrared online programming.
- Supports disordered installation without following ID sequence during construction.
- Mobile APP supports QR code scanning for ID and device identification, prevents duplicate IDs, and allows offline operation.
- Supports broadcast, multicast, and unicast control.
- Collects, monitors, and reports current, voltage, power, energy consumption and other parameters.
- Provides lamp fault detection, collects overvoltage, undervoltage, overcurrent information, and actively reports alarms as configured.

Technical Parameters:

- Input: 90–305 VAC
- Output: 0–10 VDC / PWM dimming interface,
- 100 mA, with output short-circuit protection
- Operating temperature: –20 °C to +60 °C
- Operating humidity: 0–95% RH, non-condensing
- Protection degree: IP67
- Surge protection: 6 kV / 10 kV
- Response time: ＜ 300 ms
- Rated power: ≤ 1 W

照明回路分控器
Lighting Circuit Sub-Controller

STLS.PLC.FK.20A



- PLC控制器，三相输入/输出
- 输入电压：100-300Vac
- 输出电流：MAX.20A
- 内置信号隔离，多台PLC分控制器互不干扰，相间信号互不干扰
- 支持隧道灯及景观灯的开关、亮度、色温、分组、模式控制
- 支持能耗监测
- 支持导轨式安装
- PLC controller with three-phase input/output
- Input：100-300Vac
- Output：MAX.20A
- Built-in signal isolation, multiple PLC sub-controllers do not interfere with each other and the signals between phases do not interfere with each other
- Support for tunnel light and landscape light switching, brightness, color temperature, grouping, mode control
- Support energy consumption monitoring
- Support rail mounting

STLS.PLC.FK



- PLC控制器，三相输入/输出
- 输入电压：100-300Vac
- 信号隔离外置，多台PLC分控制器互不干扰
- 相间信号互不干扰
- 支持隧道灯及景观灯的开关、亮度、色温、分组、模式控制
- 支持能耗监测
- 支持导轨式安装
- PLC controller with three-phase input/output
- Input：100-300Vac
- Signal isolation is external, multiple PLC sub-controllers do not interfere with each other
- The signals between phases do not interfere with each other
- Support for tunnel light and landscape light switching, brightness, color temperature, grouping, mode control
- Support energy consumption monitoring
- Support rail mounting

STLS.FK.4DO.16A



- 输入电压：100-300Vac
- 输出DO：4路
- 输出电流：16A
- RS485接口
- 与集中器配套使用
- 直接控制LED灯具
- Input voltage: 100-300Vac
- Output DO: 4 channels
- Output current: 16A
- RS485 interface
- Compatible for use with concentrator
- Direct control of LED lighting fixtures

直流电源控制柜
DC Power Control Cabinet



直流电源控制柜通过高压直流整流模块，将三相交流整流为400V/750V直流电压（可调），以供负载端LED驱动器及灯具使用。系统每个分路相互独立，支持单进多出和多进多出，输出分路支持最大12分路输出，且采用N+1冗余工作模式，当某个模块出现故障时，由备用冗余的模块自动供电，且更换故障模块无需拆接任何连接线。

The DC power control cabinet uses high-voltage DC rectifier modules to convert three-phase AC into 400V/750V DC voltage (adjustable) for powering LED drivers and luminaires at the load end. The system operates with each branch independently, supporting both single-input multiple-output and multiple-input multiple-output configurations.The output branch supports a maximum of 12 branch outputs and adopts an N+1 redundant working mode. When a module fails, the backup redundant module automatically supplies power, and replacing the faulty module does not require disconnecting any connecting wires.

技术特点 / TECHNICAL FEATURES

- 内置智能照明控制模块
- 具有告警保护功能
- 具有软启动功能
- 高密度可节约空间
- 适宜户外的宽温度设计
- 具有CAN总线控制接口
- 操作简单，易安装维护
- 具有支路绝缘故障检测及支路交流搭接检测功能
- 模块化插拔设计，更换PCB无需拆接任何控制线
- 友好的人机交付界面，不小于7寸触摸屏

- Built-in intelligent lighting control module
- With alarm protection function
- Soft start function
- High density can save space
- Wide temperature design for outdoor applications
- With CAN bus control interface
- Simple operation, easy to install and maintain
- With branch insulation fault detection and branch AC overlap detection function
- Modular plug-in design, no need to disassemble any control line to replace PCB
- HMI, 7-inch touch screen



主要指标 / MAIN INDEXES

HVDC400-S系列 / HVDC400-S SERIES
400V单进多出 N+1系列 / 400V SINGLE-IN MULTI-OUT N+1 SERIES

机种型号（可定制）Model number (customizable)		HVDC400-S-4*20KW	HVDC400-S-6*20KW	HVDC400-S-8*20KW	HVDC400-S-12*20KW
系统输入 INPUT	市电输入 INPUT	260Vac～530Vac			
	输入总空开 Main Circuit Breaker	175A/3P	225A/3P	250A/3P	300A/3P
	效率 Efficiency	>94%			
	功率因数 PF	>0.99			
系统输出 OUTPUT	直流输出 DC output	200 ～ 400Vdc，出厂值 default 400Vdc			
	输出配电 Output Power Distribution	4 路 circuits	6 路 circuits	8 路 circuits	12 路 circuits
	冗余 Redundant backup	N+1（可定制Customizable 1+1）			
	输出支路绝缘监测 Output Branch Insulation Monitoring	每路具备直流母线绝缘监测与交流搭接监测 Each circuit is equipped with DC bus insulation monitoring and AC lap monitoring			
通讯 Communication	有线 Wired	RJ45			
监控 Monitor		人机界面 HMI			
外部接口 External interfaces	接口 Interfaces	工业网口、模拟量、RS485、干接点 Industrial network port, analog, RS485, dry contact			
环境 Environment	运行温度 Operating temperature	-10 ～ 50°C			
	湿度 Humidity	<95% 无凝露 No condensation			
	海拔 Elevation	<2000 米，>2000 米时温度降额点，每升高 300米降低 1°C < 2000 meters,temperature derating point above 2000 meters, decreasing 1°C for every 300 meters increase			
机柜参数 Parameter	防护等级 Protection level	IP54			
	冷却方式 Cooling method	强迫风冷 Forced air cooling			
	电源柜尺寸(宽 * 深 * 高) Size(Width * Depth * Height)	600mm*600mm *1450mm	780mm*600mm *1450mm	600mm*600mm *1960mm	780mm*600mm *1960mm

HVDC750-S系列 / HVDC750-S SERIES
750V单进多出 N+1系列 / 750V SINGLE-IN MULTI-OUT N+1 SERIES

机种型号（可定制）Model number (customizable)		HVDC750-S-4*20KW	HVDC750-S-6*20KW	HVDC750-S-8*20KW	HVDC750-S-12*20KW
系统输入 INPUT	市电输入 INPUT	260Vac～530Vac			
	输入总空开 Main Circuit Breaker	175A/3P	225A/3P	250A/3P	300A/3P
	效率 Efficiency	>94%			
	功率因数 PF	>0.99			
系统输出 OUTPUT	直流输出 DC output	500～750Vdc			
	输出配电 Output Power Distribution	4 路 circuits	6 路 circuits	8 路 circuits	12 路 circuits
	冗余 Redundant backup	N+1（可定制Customizable 1+1）			
	输出支路绝缘监测 Output Branch Insulation Monitoring	每路具备直流母线绝缘监测与交流搭接监测 Each circuit is equipped with DC bus insulation monitoring and AC lap monitoring			
通讯 Communication	有线 Wired	RJ45			
监控 Monitor		人机界面 HMI			
外部接口 External interfaces	接口 Interfaces	工业网口、模拟量、RS485、干接点 Industrial network port, analog, RS485, dry contact			
环境 Environment	运行温度 Operating temperature	-10 ～ 50°C			
	湿度 Humidity	<95% 无凝露 No condensation			
	海拔 Elevation	<2000 米，>2000 米时温度降额点，每升高 300米降低 1°C < 2000 meters,temperature derating point above 2000 meters, decreasing 1°C for every 300 meters increase			
机柜参数 Parameter	防护等级 Protection level	IP54			
	冷却方式 Cooling method	强迫风冷 Forced air cooling			
	电源柜尺寸(宽 * 深 * 高) Size(Width * Depth * Height)	600mm*600mm *1450mm	780mm*600mm *1450mm	600mm*600mm *1960mm	780mm*600mm *1960mm

选型手册 | 直流电源控制柜

HVDC-S系列 / HVDC-S SERIES
交流旁路AC+DC系列 / AC BYPASS SERIES

机种型号（可定制）Model number (customizable)		HVDC-S-6*20KW	HVDC-S-8*20KW	HVDC-S-12*20KW
系统输入INPUT	市电输入 INPUT	260Vac ~ 530Vac		
	输入总空开 Main Circuit Breaker	6*63A/3P	8*63A/3P	12*63A/3P
	效率 Efficiency	>94%		
	功率因数 PF	>0.99		
系统输出OUTPUT	直流输出 DC output	200 ～ 400Vdc，出厂值 default 400Vdc		
	输出配电 Output Power Distribution	6 路 circuits	8 路 circuits	12 路circuits
	冗余 Redundant backup	交流旁路 AC bypass		
	输出支路绝缘监测 Output Branch Insulation Monitoring	每路具备直流母线绝缘监测与交流搭接监测 Each circuit is equipped with DC bus insulation monitoring and AC lap monitoring		
监控 Monitor		人机界面 HMI		
外部接口External interfaces	接口 Interfaces	工业网口、模拟量、RS485、干接点 Industrial network port, analog, RS485, dry contact		
环境 Environment	运行温度 Operating temperature	-10 ～ 50°C		
	湿度 Humidity	<95% 无凝露 No condensation		
	海拔 Elevation	<2000 米，>2000 米时温度降额点，每升高 300米降低 1°C < 2000 meters,temperature derating point above 2000 meters, decreasing 1°C for every 300 meters increase		
机柜参数 Parameter	防护等级 Protection level	IP54		
	冷却方式 Cooling method	强迫风冷 Forced air cooling		
	电源柜尺寸(宽 * 深 * 高) Size(Width * Depth * Height)	480mm*690mm*1800mm	480mm*690mm*1800mm	840mm*690mm*1800mm

HVDC400-L / HVDC400-L SERIES
400V单进多出 市政路灯系列 / 400V SINGLE-IN MULTI-OUT MUNICIPAL STREET LIGHT SERIES

机种型号（可定制）Model number (customizable)		HVDC400-L-4*20KW	HVDC400-L-6*20KW	HVDC400-L-8*20KW
系统输入INPUT	市电输入 INPUT	260Vac ~ 530Vac		
	输入总空开 Main Circuit Breaker	125A-400A塑壳空开（MCCB）		
	效率 Efficiency	>94%		
	功率因数 PF	>0.99		
系统输出OUTPUT	直流输出 DC output	150-550Vdc可调，最大400A，120KW Adjustable 150-550Vdc, Max 400A, 120kW		
	输出配电 Output Power Distribution	4 路 circuits	6 路 circuits	8 路 circuits
	冗余 Redundant backup	N+1		
	输出支路绝缘监测 Output Branch Insulation Monitoring	每路具备直流母线绝缘监测与交流搭接监测 Each circuit is equipped with DC bus insulation monitoring and AC lap monitoring		
监控 Monitor		人机界面 HMI		
外部接口External interfaces	接口 Interfaces	工业网口、模拟量、RS485、干接点 Industrial network port, analog, RS485, dry contact		
环境 Environment	运行温度 Operating temperature	-10 ～ 50°C		
	湿度 Humidity	<95% 无凝露 No condensation		
	海拔 Elevation	<2000 米，>2000 米时温度降额点，每升高 300米降低 1°C < 2000 meters,temperature derating point above 2000 meters, decreasing 1°C for every 300 meters increase		
机柜参数 Parameter	防护等级 Protection level	IP45（可定制室外机Customizable Outdoor Unit）		
	冷却方式 Cooling method	强迫风冷 Forced air cooling		
	电源柜尺寸(宽 * 深 * 高) Size(Width * Depth * Height)	500mm*650mm*1400mm	500mm*650mm*1800mm	500mm*650mm*1800mm

多脉冲直流电源控制柜
Multi-pulse DC Power Supply Control Cabinet

HVDC-MP系列
HVDC-MP Series

多脉冲整流系列
Multi-pulse Rectification Series



技术特点 / TECHNICAL FEATURES

- 采用隔离型 18 脉冲变压整流器
- AC380V 三相输入，DC400V或DC750V高压直流输出
- 效率高达 96%
- 全方位保护：缺相保护，过欠压保护，电压闪断保护，直流漏电保护，软启动保护
- 可选配智能控制模块，实现灯具的调光和集中电源的状态监控
- 安全性高，无触电风险
- 采用直流供电，线路损耗大大降低
- 多脉冲变压器，环境适应性更强，可适应户外-40°C

- Utilizes an isolated 18-pulse transformer rectifier
- AC380V three-phase input; high-voltage DC output of DC400V or DC750V.
- Efficiency 96%
- Comprehensive protection: Phase loss protection, over/undervoltage protection, voltage interruption protection, DC leakage protection, soft start protection
- Optional intelligent control module for lamp dimming and centralized power status monitoring
- High safety with no risk of electric shock
- Adopting DC power supply significantly reduces line losses
- Multi-pulse transformer, which offers enhanced environmental adaptability and can operate in outdoor environments down to -40°C

机种型号（可定制）Model number (customizable)		15-150KW，可定制Customizable
系统输入INPUT	市电输入 INPUT	AC380±15%
	效率 Efficiency	>96%
	功率数 PF	>0.96
系统输出OUTPUT	直流输出 DC output	400Vdc±20%
	输出配电 Output Power Distribution	4 路、6 路、8路、12 路可选 4/6/8/12 circuits available
	支路结构 Branch Circuit Structure	模块化插拔式结构 Modular Hot-Swappable Configuration
	输出支路绝缘监测 Output Branch Insulation Monitoring	每路具备直流母线绝缘监测与交流搭接监测 Each circuit is equipped with DC bus insulation monitoring and AC lap monitoring
通讯 Communication	有线 wired	RJ45
监控 Monitor		人机界面 HMI
外部接口External interfaces	接口 Interfaces	工业网口、模拟量、RS485、干接点 Industrial network port, analog, RS485, dry contact
环境 Environment	运行温度 Operating temperature	-10 ～ 50°C
	湿度 Humidity	<95% 无凝露 No condensation
	海拔 Elevation	<2000 米，>2000 米时温度降额点，每升高 300米降低 1°C < 2000 meters,temperature derating point above 2000 meters, decreasing 1°C for every 300 meters increase
机柜参数 Parameter	防护等级 Protection level	IP54
	冷却方式 Cooling method	强迫风冷 Forced air cooling

LED 驱动电源
LED DRIVER

HMC-D系列
HMC-D Series

直流电力载波调光系列
DC-PLC Dimmable Series



产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：90-305Vac，135-495Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- 直流电力载波调光
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：输入低压自动降额；防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)/过流保护(OCP)/过载保护(OTP)；
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage:90-305Vac,135-495Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- DC power line communication dimming
- Independent, Constant Current
- Surge protection:6/10KV
- Protection: SPD/SCP/OVP/OTP/OCP/OLP/OCP/OTP, Input low voltage automatic derating
- Aluminium case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 电力载波调光，不需要额外敷设信号线
- 回路控制
- 支持午夜关灯及午夜调光
- 需要与直流电源柜配套使用

- Dim-to-off
- 10-100% stepless dimming
- Power line communication dimming, without control lines
- Circuit control
- Support midnight light off and midnight dimming
- It needs to be matched with DC power supply cabinet

功率/ POWER

20W 30W 40W 50W 60W 80W 105W 120W 150W 200W 240W

应用/ APPLICATIONS

隧道照明 Tunnel lighting | 道路照明 Street lighting | 景观照明 Landscape lighting | 植物照明 Plant lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting | 地铁照明 Subway lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定 功率 Rated power	输出电 压范围 Output Voltage	满功率电流 可调范围 Constant power	默认 输出 Default Output Current Setting	典型 效率 Typical Efficiency	典型 PF值 Power Factor	尺寸 Product Size (L*W*H)
HMC-020-033DX	20W	20-33V	0.60-0.83A	0.60A	86%	0.96	153*47*37mm
HMC-030-042DX	30W	20-42V	0.70-1.00A	0.70A	89%	0.98	152*69*42mm
HMC-040-042DX	40W	27-42V	1.00-1.25A	1.05A	89%	0.98	152*69*42mm
HMC-050-042DX	50W	30-42V	1.20-1.35A	1.20A	89%	0.98	152*69*42mm
HMC-050-048DX	50W	36-48V	1.05-1.20A	1.05A	86%	0.98	152*69*42mm
HMC-030-041DX	30W	20-41V	0.74-1.25A	1.00A	87%	0.98	127*69*42mm
HMC-040-041DX	40W	20-41V	0.98-1.67A	1.05A	88%	0.98	127*69*42mm
HMC-050-041DX	50W	20-41V	1.22-1.80A	1.40A	87%	0.98	127*69*42mm
HMC-050-062DX	50W	38-62V	0.81-1.25A	1.05A	88%	0.98	127*69*42mm
HMC-060-041DX	60W	20-41V	1.46-2.15A	1.75A	88%	0.98	127*69*42mm
HMC-060-062DX	60W	38-62V	0.97-1.50A	1.40A	89%	0.98	127*69*42mm
HMC-060-108DX	60W	54-108V	0.56-0.79A	0.70A	90%	0.98	127*69*42mm
HMC-080-041DX	80W	20-41V	1.95-2.67A	2.10A	89%	0.98	127*69*42mm
HMC-080-062DX	80W	38-62V	1.29-1.90A	1.75A	89%	0.98	127*69*42mm
HMC-080-108DX	80W	54-108V	0.75-1.12A	0.75A	90%	0.98	127*69*42mm
HMC-105-041DX	105W	20-41V	2.56-3.50A	2.80A	90%	0.98	152*69*42mm
HMC-105-062DX	105W	38-62V	1.69-2.50A	2.10A	90%	0.98	152*69*42mm
HMC-105-100DX	105W	50-100V	1.05-1.40A	1.40A	92%	0.98	152*69*42mm
HMC-105-150DX	105W	75-150V	0.70-1.05A	1.05A	91%	0.98	152*69*42mm
HMC-120-041DX	120W	20-41V	2.93-4.00A	3.15A	91%	0.98	152*69*42mm
HMC-120-062DX	120W	38-62V	1.93-2.86A	2.45A	90%	0.98	152*69*42mm
HMC-120-100DX	120W	50-100V	1.20-1.40A	1.40A	92%	0.98	152*69*42mm
HMC-120-150DX	120W	75-150V	0.80-1.05A	1.05A	92%	0.98	152*69*42mm
HMC-150-041DX	150W	20-41V	3.67-5.00A	4.20A	91%	0.98	177*69*42mm
HMC-150-062DX	150W	38-62V	2.42-3.60A	3.15A	92%	0.98	177*69*42mm
HMC-150-108DX	150W	54-108V	1.39-2.10A	2.10A	92%	0.98	177*69*42mm
HMC-150-143DX	150W	80-143V	1.05-1.50A	1.40A	92%	0.98	177*69*42mm
HMC-150-214DX	150W	107-214V	0.70-1.05A	1.05A	91%	0.98	177*69*42mm
HMC-200-041DX	200W	20-41V	4.88-6.67A	5.60A	92%	0.98	192*69*42mm
HMC-200-062DX	200W	38-62V	3.23-5.00A	4.20A	93%	0.98	192*69*42mm
HMC-200-096DX	200W	48-96V	2.10-3.00A	2.45A	93%	0.98	192*69*42mm
HMC-200-143DX	200W	70-143V	1.40-2.10A	1.75A	93%	0.98	192*69*42mm
HMC-200-191DX	200W	96-191V	1.05-1.50A	1.40A	93%	0.98	192*69*42mm
HMC-200-286DX	200W	143-286V	0.70-1.05A	0.70A	93%	0.98	192*69*42mm
HMC-240-041DX	240W	20-41V	5.86-7.50A	6.65A	92%	0.98	207*69*42mm
HMC-240-062DX	240W	38-62V	3.88-5.71A	4.90A	94%	0.98	207*69*42mm
HMC-240-086DX	240W	43-86V	2.80-4.20A	3.50A	93%	0.98	207*69*42mm
HMC-240-171DX	240W	85-171V	1.40-2.10A	1.75A	93%	0.98	207*69*42mm
HMC-240-229DX	240W	114-229V	1.05-1.50A	1.40A	93%	0.98	207*69*42mm
HMC-240-343DX	240W	171-343V	0.70-1.05A	0.70A	93%	0.98	207*69*42mm

注：1、X=A/B，表示A版金属外壳或B版金属外壳。 2、D:需要与直流电源柜配套使用。

1、X=A/B, which means A version of the metal case or B version of the metal case.

2、D: It needsto be matched with DC power supply cabinet.

最终规格参数请以我司提供的《产品规格书》为准

LED 驱动电源
LED DRIVER

HMC-Z系列
HMC-Z Series

Zigbee无线调光系列
Zigbee Wireless Dimmable Series



产品特性 / PRODUCT FEATURES

- 安全隔离；
- 交直流两用；
- 输入电压范围：90-305Vac，135-495Vdc；
- 高功率因数，低THD，高效率；
- 恒功率设计；
- Zigbee 2.4G 调光；
- 独立式，恒流恒压模式，保证光源永不超载；
- 防雷等级：差模6KV，共模10KV；
- 保护功能：输入低压自动降额；防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)/过流保护(OCP)/过载保护(OLP)；
- 铝外壳；IP67防护等级；
- 5年质保；
- 可搭配随车照明方案。

- Isolation;
- AC/DC dual-use;
- Input Voltage: 90-305Vac, 135-495Vdc;
- High PF, Low THD, High Efficiency;
- Constant power design;
- Zigbee 2.4G dimming;
- Independent, Constant current and constant voltage control ensure that the light source never overloads.
- Surge protection: 6/10KV;
- Protection: SPD/SCP/OVP/OTP/OCP/OLP, Input low voltage automatic derating;
- Aluminium case, IP67;
- 5 years warranty;
- Compatible with vehicle-following lighting solutions.

功能特性 / FUNCTION FEATURES

- 可关断
- 1-100%无极调光
- 手机APP在线编程
- Zigbee无线通讯，不需要额外敷设信号线
- 自组网，灯-灯互联
- 支持无序安装，安装时无需依据ID号顺序施工
- 采集并检测上报电流、电压、功率等参数
- 采集并检测上报过压、欠压、过流及故障信息

- Dim-to-off
- 1-100% stepless dimming;
- APP Online programming;
- Zigbee wireless communication, no additional signal wiring required;
- Self-organizing network, light-to-light interconnection;
- Supports disorderly installation—no need to follow ID sequence during installation;
- Collects and reports parameters such as current, voltage, and power;
- Detects and reports overvoltage, undervoltage, overcurrent, and fault information.

功率/ POWER

20W 30W 40W 50W 60W 80W 105W 120W 150W 200W 240W

应用/ APPLICATIONS

道路照明 Street lighting | 隧道照明 Tunnel lighting | 家用照明 Household lighting | 商业照明 Commercial lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting | 地铁照明 Subway lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定 功率 Rated power	输出电 压范围 Output Voltage	满功率电流 可调范围 Full power current	默认 输出 Default Output Current Setting	典型 效率 Typical Efficiency	典型 PF值 Power Factor	尺寸 Product Size (L*W*H)
HMC-020-033ZA	20W	20-33V	0.60-0.83A	0.60A	86%	0.96	153*69*42mm
HMC-030-040ZA	30W	20-40V	0.70-1.00A	0.70A	89%	0.98	153*69*42mm
HMC-030-042ZA	30W	20-42V	0.70-1.00A	0.70A	89%	0.98	172*69*42mm
HMC-040-042ZA	40W	27-42V	1.00-1.25A	1.05A	89%	0.98	172*69*42mm
HMC-050-042ZA	50W	30-42V	1.20-1.35A	1.20A	89%	0.98	172*69*42mm
HMC-050-048ZA	50W	36-48V	1.05-1.20A	1.05A	86%	0.98	172*69*42mm
HMC-030-041ZA	30W	20-41V	0.74-1.25A	1.00A	87%	0.98	155*69*42mm
HMC-040-041ZA	40W	20-41V	0.98-1.67A	1.05A	88%	0.98	155*69*42mm
HMC-050-041ZA	50W	20-41V	1.22-1.80A	1.40A	87%	0.98	155*69*42mm
HMC-050-062ZA	50W	38-62V	0.81-1.25A	1.05A	88%	0.98	155*69*42mm
HMC-060-041ZA	60W	20-41V	1.46-2.15A	1.75A	88%	0.98	155*69*42mm
HMC-060-062ZA	60W	38-62V	0.97-1.50A	1.40A	89%	0.98	155*69*42mm
HMC-060-108ZA	60W	54-108V	0.56-0.79A	0.70A	90%	0.98	155*69*42mm
HMC-080-041ZA	80W	20-41V	1.95-2.67A	2.10A	89%	0.98	155*69*42mm
HMC-080-062ZA	80W	38-62V	1.29-1.90A	1.75A	89%	0.98	155*69*42mm
HMC-080-108ZA	80W	54-108V	0.75-1.12A	0.75A	90%	0.98	155*69*42mm
HMC-105-041ZA	105W	20-41V	2.56-3.50A	2.80A	90%	0.98	180*69*42mm
HMC-105-062ZA	105W	38-62V	1.69-2.50A	2.10A	90%	0.98	180*69*42mm
HMC-105-100ZA	105W	50-100V	1.05-1.40A	1.40A	92%	0.98	180*69*42mm
HMC-105-150ZA	105W	75-150V	0.70-1.05A	1.05A	91%	0.98	180*69*42mm
HMC-120-041ZA	120W	20-41V	2.93-4.00A	3.15A	91%	0.98	180*69*42mm
HMC-120-062ZA	120W	38-62V	1.93-2.86A	2.45A	90%	0.98	180*69*42mm
HMC-120-100ZA	120W	50-100V	1.20-1.40A	1.40A	92%	0.98	180*69*42mm
HMC-120-150ZA	120W	75-150V	0.80-1.05A	1.05A	92%	0.98	180*69*42mm
HMC-150-041ZA	150W	20-41V	3.67-5.00A	4.20A	91%	0.98	204*69*42mm
HMC-150-062ZA	150W	38-62V	2.42-3.60A	3.15A	92%	0.98	204*69*42mm
HMC-150-108ZA	150W	54-108V	1.39-2.10A	2.10A	92%	0.98	204*69*42mm
HMC-150-143ZA	150W	80-143V	1.05-1.50A	1.40A	92%	0.98	204*69*42mm
HMC-150-214ZA	150W	107-214V	0.70-1.05A	1.05A	91%	0.98	204*69*42mm
HMC-200-041ZA	200W	20-41V	4.88-5.56A	5.25A	92%	0.98	220*69*42mm
HMC-200-062ZA	200W	38-62V	3.23-5.00A	4.20A	93%	0.98	220*69*42mm
HMC-200-096ZA	200W	48-96V	2.10-3.00A	2.45A	93%	0.98	220*69*42mm
HMC-200-143ZA	200W	70-143V	1.40-2.10A	1.75A	93%	0.98	220*69*42mm
HMC-200-191ZA	200W	96-191V	1.05-1.50A	1.40A	93%	0.98	220*69*42mm
HMC-200-286ZA	200W	143-286V	0.70-1.05A	0.70A	93%	0.98	220*69*42mm
HMC-240-041ZA	240W	20-41V	5.86-7.50A	6.65A	92%	0.98	235*69*42mm
HMC-240-062ZA	240W	38-62V	3.88-5.71A	4.90A	94%	0.98	235*69*42mm
HMC-240-086ZA	240W	43-86V	2.80-4.20A	3.50A	93%	0.98	235*69*42mm
HMC-240-171ZA	240W	85-171V	1.40-2.10A	1.75A	93%	0.98	235*69*42mm
HMC-240-229ZA	240W	114-229V	1.05-1.50A	1.40A	93%	0.98	235*69*42mm
HMC-240-343ZA	240W	171-343V	0.70-1.05A	0.70A	93%	0.98	235*69*42mm

选型手册 – LED驱动电源 – 户外照明

LED 驱动电源
LED DRIVER

HMC-P/C系列
HMC-P/C Series

电力载波调光系列
PLC Dimmable Series



产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：90-305Vac，135-495Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- 电力载波调光(PLC调光)
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：输入低压自动降额；防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)/过流保护(OCP)/过载保护(OLP)；
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage:90-305Vac,135-495Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- PLC power line communication dimming
- Independent, Constant Current
- Surge protection:6/10KV
- Protection: SPD/SCP/OVP/OTP/OCP/OLP, Input low voltage automatic derating
- Aluminium case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 在线编程
- 电力载波调光，不需要额外敷设信号线
- 支持自动调光，支持恒照度输出
- 自适应电缆正反接，适配器线缆接反时，设备仍能正常工作及调光
- 支持单灯开关灯控制、支持单灯无极调光单灯故障报警，灯具模组故障报警：某个灯珠出现故障时，其他驱动芯片和灯珠正常工作。自适应剩余功率，“保证灯具永不超载”。
- 电源具有防调光器故障功能，即调光控制器失效时，LED灯具亮度能自动调到100%，保证故障时照明；调光控制器自身具有本地策略功能，即使与后台失去联系，也能按照预先设定的控制策略定时执行，直至故障排除通讯恢复正常。
- 灯具生态环境评估及报警
- 支持午夜关灯及午夜调光
- 双色温调节(仅C型号)

- Dim-to-off
- 10-100% stepless dimming
- on-line programmable
- Power line communication dimming, without control lines
- Supports automatic dimming and constant illumination output
- Adaptive cable is reversed, when the adapter cable is reversed, the device can still work and be dimmed
- Support single lamp switch control, support single lamp stepless dimming
- Single lamp fault alarm, LED module fault alarm, adaptive residual power, "ensure that the lamp will never be overloaded"
- The power supply has anti dimmer failure function, which means that when the dimmer controller fails, the brightness of the LED lamp can be automatically adjusted to 100%
- LED environment assessment and alarm
- Support midnight light off and midnight dimming
- Support dual color temperature adjustment (C type)

功率/ POWER

30W 40W 50W 60W 80W 105W 120W 150W 200W 240W

应用/ APPLICATIONS

隧道照明 Tunnel lighting | 道路照明 Street lighting | 景观照明 Landscape lighting | 植物照明 Plant lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定 功率 Rated power	输出电 压范围 Output Voltage	满功率电流 可调范围 Full power current	默认 输出 Default Output Current Setting	典型 效率 Typical Efficiency	典型 PF值 Power Factor	尺寸 Product Size (L*W*H)
HMC-030-042CX	30W	20-42V	0.70-1.00A	0.70A	89%	0.98	192*69*42mm
HMC-040-042CX	40W	27-42V	1.00-1.25A	1.05A	89%	0.98	192*69*42mm
HMC-050-048CX	50W	36-48V	1.05-1.20A	1.05A	89%	0.98	192*69*42mm
HMC-030-042PX	30W	20-42V	0.70-1.00A	0.70A	89%	0.98	172*69*42mm
HMC-040-042PX	40W	27-42V	1.00-1.25A	1.05A	89%	0.98	172*69*43mm
HMC-050-048PX	50W	36-48V	1.05-1.20A	1.05A	89%	0.98	172*69*44mm
HMC-030-041PX	30W	20-41V	0.74-1.25A	1.00A	87%	0.98	167*69*42mm
HMC-040-041PX	40W	20-41V	0.98-1.67A	1.05A	88%	0.98	167*69*42mm
HMC-050-041PX	50W	20-41V	1.22-1.80A	1.40A	87%	0.98	167*69*42mm
HMC-050-062PX	50W	38-62V	0.81-1.25A	1.05A	88%	0.98	167*69*42mm
HMC-060-041PX	60W	20-41V	1.46-2.15A	1.75A	88%	0.98	167*69*42mm
HMC-060-062PX	60W	38-62V	0.97-1.50A	1.40A	89%	0.98	167*69*42mm
HMC-060-108PX	60W	54-108V	0.56-0.79A	0.70A	90%	0.98	167*69*42mm
HMC-080-041PX	80W	20-41V	1.95-2.67A	2.10A	89%	0.98	167*69*42mm
HMC-080-062PX	80W	38-62V	1.29-1.90A	1.75A	89%	0.98	167*69*42mm
HMC-080-108PX	80W	54-108V	0.75-1.12A	0.75A	90%	0.98	167*69*42mm
HMC-105-041PX	105W	20-41V	2.56-3.50A	2.80A	90%	0.98	187*69*42mm
HMC-105-062PX	105W	38-62V	1.69-2.50A	2.10A	90%	0.98	187*69*42mm
HMC-105-100PX	105W	50-100V	1.05-1.40A	1.40A	92%	0.98	187*69*42mm
HMC-105-150PX	105W	75-150V	0.70-1.05A	1.05A	91%	0.98	187*69*42mm
HMC-120-041PX	120W	20-41V	2.93-4.00A	3.15A	91%	0.98	187*69*42mm
HMC-120-062PX	120W	38-62V	1.93-2.86A	2.45A	90%	0.98	187*69*42mm
HMC-120-100PX	120W	50-100V	1.20-1.40A	1.40A	92%	0.98	187*69*42mm
HMC-120-150PX	120W	75-150V	0.80-1.05A	1.05A	92%	0.98	187*69*42mm
HMC-150-041PX	150W	20-41V	3.67-5.00A	4.20A	91%	0.98	207*69*42mm
HMC-150-062PX	150W	38-62V	2.42-3.60A	3.15A	92%	0.98	207*69*42mm
HMC-150-108PX	150W	54-108V	1.39-2.10A	2.10A	92%	0.98	207*69*42mm
HMC-150-143PX	150W	80-143V	1.05-1.50A	1.40A	92%	0.98	207*69*42mm
HMC-150-214PX	150W	107-214V	0.70-1.05A	1.05A	91%	0.98	207*69*42mm
HMC-200-041PX	200W	20-41V	4.88-6.67A	5.60A	92%	0.98	222*69*42mm
HMC-200-062PX	200W	38-62V	3.23-5.00A	4.20A	93%	0.98	222*69*42mm
HMC-200-096PX	200W	48-96V	2.10-3.00A	2.45A	93%	0.98	222*69*42mm
HMC-200-143PX	200W	70-143V	1.40-2.10A	1.75A	93%	0.98	222*69*42mm
HMC-200-191PX	200W	96-191V	1.05-1.50A	1.40A	93%	0.98	222*69*42mm
HMC-200-286PX	200W	143-286V	0.70-1.05A	0.70A	93%	0.98	222*69*42mm
HMC-240-041PX	240W	20-41V	5.86-7.50A	6.65A	92%	0.98	237*69*42mm
HMC-240-062PX	240W	38-62V	3.88-5.71A	4.90A	94%	0.98	237*69*42mm
HMC-240-086PX	240W	43-86V	2.80-4.20A	3.50A	93%	0.98	237*69*42mm
HMC-240-171PX	240W	85-171V	1.40-2.10A	1.75A	93%	0.98	237*69*42mm
HMC-240-229PX	240W	114-229V	1.05-1.50A	1.40A	93%	0.98	237*69*42mm
HMC-240-343PX	240W	171-343V	0.70-1.05A	0.70A	93%	0.98	237*69*42mm

注：1、X=A/B，表示A版金属外壳或B版金属外壳。2、C：表示电力载波调光(双色温)。P：表示电力载波调光(PLC调光)
1、X=A/B, which means A version of the metal case or B version of the metal case.
2、C: Power Carrier Dimming (Dual Color Temperature). P: Power Line Carrier Dimming (PLC Dimming).

选型手册 – LED驱动电源 – 户外照明

LED驱动电源
LED DRIVER

HMC-M/N系列
HMC-M/N Series

三合一调光/非调光系列
3-in-1 Dimmable/Non-dimmable Series



产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：90-305Vac，135-495Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- 多种调光方式可选：0-10V/PWM/可调电阻
- 输出与调光信号隔离
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)/过流保护(OCP)/过载保护(OLP)；
- 离线编程
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage:90-305Vac,135-495Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- A variety of dimming methods are available: 0-10V/PWM/ Adjustable resistor
- Output and Dimming Signal Isolating
- Independent, Constant Current
- Surge protection:6/10KV
- Protection: SPD/SCP/OVP/OTP/OCP/OLP
- Off-line programmable
- Aluminium Case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 0-10V/PWM/时控调光，支持正反逻辑，调光关断
- 支持午夜关灯及午夜调光

- Dim-to-off
- 10-100% stepless dimming
- 0-10Vdc, PWM, Timer dimming, Positive and Reverse Logic can be customized as request
- Support midnight light off and midnight dimming

功率/ POWER

20W 30W 40W 50W 60W 80W 105W 120W 150W 200W 240W

应用/ APPLICATIONS

道路照明 Street lighting | 隧道照明 Tunnel lighting | 植物照明 Plant lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting | 景观照明 Landscape lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定 功率 Rated power	输出电 压范围 Output Voltage	满功率电流 可调范围 Full power current	默认 输出 Default Output Current Setting	典型 效率 Typical Efficiency	典型 PF值 Power Factor	尺寸 Product Size (L*W*H)
HMC-020-033YX	20W	20-33V	0.60-0.83A	0.60A	86%	0.96	153*47*37mm
HMC-030-042YX	30W	20-42V	0.70-1.00A	0.70A	89%	0.98	152*69*42mm
HMC-040-042YX	40W	27-42V	1.00-1.25A	1.05A	89%	0.98	152*69*42mm
HMC-050-042YX	50W	30-42V	1.20-1.35A	1.20A	89%	0.98	152*69*42mm
HMC-050-048YX	50W	36-48V	1.05-1.20A	1.05A	89%	0.98	152*69*42mm
HMC-030-041YX	30W	20-41V	0.74-1.25A	1.00A	87%	0.98	127*69*42mm
HMC-040-041YX	40W	20-41V	0.98-1.67A	1.05A	88%	0.98	127*69*42mm
HMC-050-041YX	50W	20-41V	1.22-1.80A	1.40A	87%	0.98	127*69*42mm
HMC-050-062YX	50W	38-62V	0.81-1.25A	1.05A	88%	0.98	127*69*42mm
HMC-060-041YX	60W	20-41V	1.46-2.15A	1.75A	88%	0.98	127*69*42mm
HMC-060-062YX	60W	38-62V	0.97-1.50A	1.40A	89%	0.98	127*69*42mm
HMC-060-108YX	60W	54-108V	0.56-0.79A	0.70A	90%	0.98	127*69*42mm
HMC-080-041YX	80W	20-41V	1.95-2.67A	2.10A	89%	0.98	127*69*42mm
HMC-080-062YX	80W	38-62V	1.29-1.90A	1.75A	89%	0.98	127*69*42mm
HMC-080-108YX	80W	54-108V	0.75-1.12A	0.75A	90%	0.98	127*69*42mm
HMC-105-041YX	105W	20-41V	2.56-3.50A	2.80A	90%	0.98	152*69*42mm
HMC-105-062YX	105W	38-62V	1.69-2.50A	2.10A	90%	0.98	152*69*42mm
HMC-105-100YX	105W	50-100V	1.05-1.40A	1.40A	92%	0.98	152*69*42mm
HMC-105-150YX	105W	75-150V	0.70-1.05A	1.05A	91%	0.98	152*69*42mm
HMC-120-041YX	120W	20-41V	2.93-4.00A	3.15A	91%	0.98	152*69*42mm
HMC-120-062YX	120W	38-62V	1.93-2.86A	2.45A	90%	0.98	152*69*42mm
HMC-120-100YX	120W	50-100V	1.20-1.40A	1.40A	92%	0.98	152*69*42mm
HMC-120-150YX	120W	75-150V	0.80-1.05A	1.05A	92%	0.98	152*69*42mm
HMC-150-041YX	150W	20-41V	3.67-5.00A	4.20A	91%	0.98	177*69*42mm
HMC-150-062YX	150W	38-62V	2.42-3.60A	3.15A	92%	0.98	177*69*42mm
HMC-150-108YX	150W	54-108V	1.39-2.10A	2.10A	92%	0.98	177*69*42mm
HMC-150-143YX	150W	80-143V	1.05-1.50A	1.40A	92%	0.98	177*69*42mm
HMC-150-214YX	150W	107-214V	0.70-1.05A	1.05A	91%	0.98	177*69*42mm
HMC-200-041YX	200W	20-41V	4.88-6.67A	5.60A	92%	0.98	192*69*42mm
HMC-200-062YX	200W	38-62V	3.23-5.00A	4.20A	93%	0.98	192*69*42mm
HMC-200-096YX	200W	48-96V	2.10-3.00A	2.45A	93%	0.98	192*69*42mm
HMC-200-143YX	200W	70-143V	1.40-2.10A	1.75A	93%	0.98	192*69*42mm
HMC-200-191YX	200W	96-191V	1.05-1.50A	1.40A	93%	0.98	192*69*42mm
HMC-200-286YX	200W	143-286V	0.70-1.05A	0.70A	93%	0.98	192*69*42mm
HMC-240-041YX	240W	20-41V	5.86-7.50A	6.65A	92%	0.98	207*69*42mm
HMC-240-062YX	240W	38-62V	3.88-5.71A	4.90A	94%	0.98	207*69*42mm
HMC-240-086YX	240W	43-86V	2.80-4.20A	3.50A	93%	0.98	207*69*42mm
HMC-240-171YX	240W	85-171V	1.40-2.10A	1.75A	93%	0.98	207*69*42mm
HMC-240-229YX	240W	114-229V	1.05-1.50A	1.40A	93%	0.98	207*69*42mm
HMC-240-343YX	240W	171-343V	0.70-1.05A	0.70A	93%	0.98	207*69*42mm

注：1. X=A/B，表示A版金属外壳或B版金属外壳。 2、 Y=M：表示0-10V /PWM/时控调光。Y=N：表示无调光功能

1、 X=A/B, which means A version of the metal case or B version of the metal case.
2、 Y=M: 0-10V /PWM/ Time-controlled dimming. Y=N: No dimming function.

最终规格参数请以我司提供的《产品规格书》为准 PAGE-30

选型手册 – LED驱动电源 – 户外照明

LED 驱动电源
LED DRIVER

HMC-M系列
HMC-M Series

三合一调光（随车照明专用）系列
3-in-1 Dimmable Series (Vehicle-Following)



产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：90-305Vac，135-495Vdc
- 高功率因数，低THD
- 恒功率设计
- 多种调光方式可选：0-10V/PWM/可调电阻
- 输出与调光信号隔离
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)/过流保护(OCP)/过载保护(OLP)；
- 离线编程
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage:90-305Vac,135-495Vdc
- High PF, Low THD
- Constant power design
- A variety of dimming methods are available: 0-10V/PWM/ Adjustable resistor
- Output and Dimming Signal Isolating
- Independent, Constant Current
- Surge protection:6/10KV
- Protection: SPD/SCP/OVP/OTP/OCP/OLP
- Off-line programmable
- Aluminium Case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 调光响应时间更短，适配于随车照明方案
- 可关断
- 10-100%无极调光
- 0-10V/PWM/时控调光，支持正反逻辑，调光关断
- 支持午夜关灯及午夜调光

- Shorter dimming response time, suitable for vehicle-following lighting solutions;
- Dim-to-off
- 10-100% stepless dimming
- 0-10Vdc, PWM, Timer dimming, Positive and Reverse Logic can be customized as request
- Support midnight light off and midnight dimming

功率/ POWER

20W 30W 40W 50W 60W 80W 105W 120W 150W 200W 240W

应用/ APPLICATIONS

道路照明
Street lighting

隧道照明
Tunnel lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定 功率 Rated power	输出电 压范围 Output Voltage	满功率电流 可调范围 Full power current	默认 输出 Default Output Current Setting	典型 效率 Typical Efficiency	典型 PF值 Power Factor	尺寸 Product Size (L*W*H)
HMC-020-033MA(S)	20W	20-33V	0.60-0.83A	0.60A	86%	0.96	153*47*37mm
HMC-030-042MA(S)	30W	20-42V	0.70-1.00A	0.70A	89%	0.98	152*69*42mm
HMC-040-042MA(S)	40W	27-42V	1.00-1.25A	1.05A	89%	0.98	152*69*42mm
HMC-050-042MA(S)	50W	30-42V	1.20-1.35A	1.20A	89%	0.98	152*69*42mm
HMC-050-048MA(S)	50W	36-48V	1.05-1.20A	1.05A	89%	0.98	152*69*42mm
HMC-030-041MA(S)	30W	20-41V	0.74-1.25A	1.00A	87%	0.98	127*69*42mm
HMC-040-041MA(S)	40W	20-41V	0.98-1.67A	1.05A	88%	0.98	127*69*42mm
HMC-050-041MA(S)	50W	20-41V	1.22-1.80A	1.40A	87%	0.98	127*69*42mm
HMC-050-062MA(S)	50W	38-62V	0.81-1.25A	1.05A	88%	0.98	127*69*42mm
HMC-060-041MA(S)	60W	20-41V	1.46-2.15A	1.75A	88%	0.98	127*69*42mm
HMC-060-062MA(S)	60W	38-62V	0.97-1.50A	1.40A	89%	0.98	127*69*42mm
HMC-060-108MA(S)	60W	54-108V	0.56-0.79A	0.70A	90%	0.98	127*69*42mm
HMC-080-041MA(S)	80W	20-41V	1.95-2.67A	2.10A	89%	0.98	127*69*42mm
HMC-080-062MA(S)	80W	38-62V	1.29-1.90A	1.75A	89%	0.98	127*69*42mm
HMC-080-108MA(S)	80W	54-108V	0.75-1.12A	0.75A	90%	0.98	127*69*42mm
HMC-105-041MA(S)	105W	20-41V	2.56-3.50A	2.80A	90%	0.98	152*69*42mm
HMC-105-062MA(S)	105W	38-62V	1.69-2.50A	2.10A	90%	0.98	152*69*42mm
HMC-105-100MA(S)	105W	50-100V	1.05-1.40A	1.40A	92%	0.98	152*69*42mm
HMC-105-150MA(S)	105W	75-150V	0.70-1.05A	1.05A	91%	0.98	152*69*42mm
HMC-120-041MA(S)	120W	20-41V	2.93-4.00A	3.15A	91%	0.98	152*69*42mm
HMC-120-062MA(S)	120W	38-62V	1.93-2.86A	2.45A	90%	0.98	152*69*42mm
HMC-120-100MA(S)	120W	50-100V	1.20-1.40A	1.40A	92%	0.98	152*69*42mm
HMC-120-150MA(S)	120W	75-150V	0.80-1.05A	1.05A	92%	0.98	152*69*42mm
HMC-150-041MA(S)	150W	20-41V	3.67-5.00A	4.20A	91%	0.98	177*69*42mm
HMC-150-062MA(S)	150W	38-62V	2.42-3.60A	3.15A	92%	0.98	177*69*42mm
HMC-150-108MA(S)	150W	54-108V	1.39-2.10A	2.10A	92%	0.98	177*69*42mm
HMC-150-143MA(S)	150W	80-143V	1.05-1.50A	1.40A	92%	0.98	177*69*42mm
HMC-150-214MA(S)	150W	107-214V	0.70-1.05A	1.05A	91%	0.98	177*69*42mm
HMC-200-041MA(S)	200W	20-41V	4.88-6.67A	5.60A	92%	0.98	192*69*42mm
HMC-200-062MA(S)	200W	38-62V	3.23-5.00A	4.20A	93%	0.98	192*69*42mm
HMC-200-096MA(S)	200W	48-96V	2.10-3.00A	2.45A	93%	0.98	192*69*42mm
HMC-200-143MA(S)	200W	70-143V	1.40-2.10A	1.75A	93%	0.98	192*69*42mm
HMC-200-191MA(S)	200W	96-191V	1.05-1.50A	1.40A	93%	0.98	192*69*42mm
HMC-200-286MA(S)	200W	143-286V	0.70-1.05A	0.70A	93%	0.98	192*69*42mm
HMC-240-041MA(S)	240W	20-41V	5.86-7.50A	6.65A	92%	0.98	207*69*42mm
HMC-240-062MA(S)	240W	38-62V	3.88-5.71A	4.90A	94%	0.98	207*69*42mm
HMC-240-086MA(S)	240W	43-86V	2.80-4.20A	3.50A	93%	0.98	207*69*42mm
HMC-240-171MA(S)	240W	85-171V	1.40-2.10A	1.75A	93%	0.98	207*69*42mm
HMC-240-229MA(S)	240W	114-229V	1.05-1.50A	1.40A	93%	0.98	207*69*42mm
HMC-240-343MA(S)	240W	171-343V	0.70-1.05A	0.70A	93%	0.98	207*69*42mm

选型手册 – LED驱动电源 – 户外照明

LED驱动电源
LED DRIVER

HVDC750-D系列
HVDC750-D Series

750Vdc直流电力载波调光系列
750Vdc DC-PLC Dimmable Series



cec RoHS 防水等级 IP67

产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：249-528Vac，360-750Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- 直流电力载波调光
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：输入低压自动降额；防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage: 249-528Vac, 360-825Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- DC power line communication dimming
- Independent, Constant Current
- Surge protection: 6/10KV
- Protection: SPD/SCP/OVP/OTP, Input low voltage automatic derating
- Aluminium case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 电力载波调光，不需要额外敷设信号线
- 回路控制
- 支持午夜关灯及午夜调光
- 需要与直流电源柜配套使用

- Dim-to-off
- 10-100% stepless dimming
- Power line communication dimming, without control lines
- circuit control
- Support midnight light off and midnight dimming
- It needs to be matched with DC power supply cabinet

功率/ POWER

30W 50W 100W 150W 200W 250W

应用/ APPLICATIONS

隧道照明 Tunnel lighting
道路照明 Street lighting
景观照明 Landscape lighting
植物照明 Plant lighting
建筑照明 Architectural lighting
工业照明 Industrial lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定功率 Rated power	输出电压范围 Output Voltage	满功率电流可调范围 Constant power voltage	默认输出 Default Output Current Setting(A)	典型效率 Typical Efficiency	典型PF值 Power Factor	尺寸 (L*W*H)
HVDC750-030-042DX	30W	20-42V	0.70-1.25A	0.70A	86%	0.96	165*69*42mm
HVDC750-050-042DX	50W	32-42V	1.20-1.40A	1.20A	89%	0.98	165*69*42mm
HVDC750-050-143DX	50W	80-143V	0.35-0.50A	0.35A	88%	0.98	204*69*42mm
HVDC750-100-056DX	100W	22-56V	1.78-2.97A	2.10A	89%	0.98	204*69*42mm
HVDC750-100-185DX	100W	75-185V	0.54-1.05A	1.05A	89%	0.98	204*69*42mm
HVDC750-150-056DX	150W	22-56V	2.67-4.20A	3.15A	91%	0.98	204*69*42mm
HVDC750-150-215DX	150W	85-215V	0.70-1.40A	1.05A	91%	0.98	204*69*42mm
HVDC750-200-056DX	200W	22-56V	3.57-5.40A	4.20A	93%	0.98	255*69*42mm
HVDC750-200-191DX	200W	96-191V	1.05-1.50A	1.05A	93%	0.98	255*69*42mm
HVDC750-250-056DX	250W	22-56V	4.46-6.70A	5.20A	94%	0.98	255*69*42mm
HVDC750-250-228DX	250W	114-228V	1.05-1.75A	1.05A	94%	0.98	255*69*42mm

注：1、X=A/B，表示A版金属外壳或B版金属外壳。
2、需要与直流电源柜配套使用。
1、X=A/B, which means A version of the metal case or B version of the metal case.
2、It needs to be matched with DC power supply cabinet.

选型手册 – LED驱动电源 – 户外照明

LED驱动电源
LED DRIVER

HVDC750-Z 系列
HVDC750-Z Series

750Vdc Zigbee 调光系列
750Vdc Zigbee Dimmable Series



CQC RoHS 防水等级 IP67

产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：249-528Vac，360-750Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- Zigbee 2.4G 调光
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：输入低压自动降额；防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage: 249-528Vac, 360-825Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- Zigbee 2.4G dimming
- Independent, Constant Current
- Surge protection: 6/10KV
- Protection: SPD/SCP/OVP/OTP, Input low voltage automatic derating
- Aluminium case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 在线编程
- Zigbee 调光，不需要额外敷设信号线
- 自组网，灯-灯互联
- 支持午夜关灯及午夜调光
- 可轻松实现车来灯亮，车走灯暗

- Dim-to-off;
- 10-100% stepless dimming
- on-line programmable
- Zigbee Dimming with Wireless Control
- Self-organizing network, light-light interconnection
- Support midnight light off and midnight dimming
- Vehicle-Activated Dynamic Dimming with Seamless Brightness Adjustment

功率/ POWER

30W 50W 100W 150W 200W 250W

应用/ APPLICATIONS

隧道照明 Tunnel lighting | 道路照明 Street lighting | 家用照明 Household lighting | 商业照明 Commercial lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting | 地铁照明 Subway lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定功率 Rated power	输出电压范围 Output Voltage	满功率电流可调范围 Constant power voltage	默认输出 Default Output Current Setting(A)	典型效率 Typical Efficiency	典型PF值 Power Factor	尺寸 (L*W*H)
HVDC750-030-042ZA	30W	20-42V	0.70-1.25A	0.70A	86%	0.96	165*69*42mm
HVDC750-050-042ZA	50W	32-42V	1.20-1.40A	1.20A	89%	0.98	165*69*42mm
HVDC750-050-143ZA	50W	80-143V	0.35-0.50A	0.35A	88%	0.98	204*69*42mm
HVDC750-100-056ZA	100W	22-56V	1.78-2.97A	2.10A	89%	0.98	204*69*42mm
HVDC750-100-185ZA	100W	75-185V	0.54-1.05A	1.05A	89%	0.98	204*69*42mm
HVDC750-150-056ZA	150W	22-56V	2.67-4.20A	3.15A	91%	0.98	204*69*42mm
HVDC750-150-215ZA	150W	85-215V	0.70-1.40A	1.05A	91%	0.98	204*69*42mm
HVDC750-200-056ZA	200W	22-56V	3.57-5.40A	4.20A	93%	0.98	255*69*42mm
HVDC750-200-191ZA	200W	96-191V	1.05-1.50A	1.05A	93%	0.98	255*69*42mm
HVDC750-250-056ZA	250W	22-56V	4.46-6.70A	5.20A	94%	0.98	255*69*42mm
HVDC750-250-228ZA	250W	114-228V	1.05-1.75A	1.05A	94%	0.98	255*69*42mm

注：1、需要与直流电源柜配套使用。
1、It needs to be matched with DC power supply cabinet.

选型手册 – LED驱动电源 – 户外照明

LED驱动电源
LED DRIVER

HVDC750-P系列
HVDC750-P Series

750Vdc电力载波调光系列
750Vdc PLC Dimmable Series



CQC RoHS 防水等级 IP67

产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：249-528Vac，360-750Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- 电力载波调光(PLC调光)
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：输入低压自动降额；防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage: 249-528Vac, 360-825Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- PLC power line communication dimming
- Independent, Constant Current
- Surge protection: 6/10KV
- Protection: SPD/SCP/OVP/OTP, Input low voltage automatic derating
- Aluminium case, IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 在线编程
- 电力载波调光，不需要额外敷设信号线
- 支持单灯开关灯控制、支持单灯无极调光
- 单灯故障报警，灯具模组故障报警，自适应剩余功率，“保证灯具永不超载”
- 低压降功保护
- 灯具生态环境评估及报警
- 支持午夜关灯及午夜调光
- 支持双色温调节

- Dim-to-off
- 10-100% stepless dimming
- on-line programmable
- Power line communication dimming, no need signal lines
- Support single lamp switch control, support single lamp stepless dimming
- Single lamp fault alarm, LED module fault alarm, adaptive residual power, "ensure that the lamp will never be overloaded"
- input low voltage auto-derating LED environment assessment and alarm of lamps and lanterns
- Support midnight light off and midnight dimming
- Support dual color temperature adjustment

功率/ POWER

30W 50W 100W 150W 200W 250W

应用/ APPLICATIONS

隧道照明 Tunnel lighting | 道路照明 Street lighting | 景观照明 Landscape lighting | 植物照明 Plant lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定功率 Rated power	输出电压范围 Output Voltage	满功率电流可调范围 Constant power voltage	默认输出 Default Output Current Setting(A)	典型效率 Typical Efficiency	典型PF值 Power Factor	尺寸 (L*W*H)
HVDC750-030-042PX	30W	20-42V	0.70-1.25A	0.70A	86%	0.96	187*69*42mm
HVDC750-050-042PX	50W	32-42V	1.20-1.40A	1.20A	87%	0.98	187*69*42mm
HVDC750-050-143PX	50W	80-143V	0.35-0.50A	0.35A	88%	0.98	222*69*42mm
HVDC750-100-056PX	100W	22-56V	1.78-2.97A	2.10A	89%	0.98	222*69*42mm
HVDC750-100-185PX	100W	75-185V	0.54-1.05A	1.05A	89%	0.98	222*69*42mm
HVDC750-150-056PX	150W	22-56V	2.67-4.20A	3.15A	91%	0.98	222*69*42mm
HVDC750-150-215PX	150W	85-215V	0.70-1.40A	1.05A	91%	0.98	222*69*42mm
HVDC750-200-056PX	200W	22-56V	3.57-5.40A	4.20A	93%	0.98	267*69*42mm
HVDC750-200-191PX	200W	96-191V	1.05-1.50A	1.05A	93%	0.98	267*69*42mm
HVDC750-250-056PX	250W	22-56V	4.46-6.70A	5.20A	94%	0.98	267*69*42mm
HVDC750-250-228PX	250W	114-228V	1.05-1.75A	1.05A	94%	0.98	267*69*42mm
HVDC750-030-042CX	30W	20-42V	0.70-1.25A	0.70A	86%	0.96	205*69*42mm
HVDC750-050-042CX	50W	32-42V	1.20-1.40A	1.20A	87%	0.98	205*69*42mm
HVDC750-050-143CX	50W	80-143V	0.35-0.50A	0.35A	88%	0.98	240*78*42mm
HVDC750-100-056CX	100W	22-56V	1.78-2.97A	2.10A	89%	0.98	240*78*42mm
HVDC750-100-185CX	100W	75-185V	0.54-1.05A	1.05A	89%	0.98	240*78*42mm
HVDC750-150-056CX	150W	22-56V	2.67-4.20A	3.15A	91%	0.98	240*78*42mm
HVDC750-150-215CX	150W	85-215V	0.70-1.40A	1.05A	91%	0.98	240*78*42mm

注：1、Y=P表示电力载波调光，C表示电力载波调光（双色温） 2、X=A/B，表示A版金属外壳或B版金属外壳。
3、需要与直流电源柜配套使用。

1、Y=P means PLC dimming, C means PLC dimming(Dual color temperature) 2、X=A/B, which means A version of the metal case or B version of the metal case.
3、It needs to be matched with DC power supply cabinet.

选型手册－LED驱动电源－户外照明

LED驱动电源
LED DRIVER

HVDC750-M系列
HVDC750-M Series

750Vdc三合一调光系列
750Vdc 3-in-1 Dimmable Series



CQC RoHS 防水等级 IP67

产品特性 / PRODUCT FEATURES

- 安全隔离
- 交直流两用
- 输入电压范围：249-528Vac，360-750Vdc
- 高功率因数，低THD，高效率
- 恒功率设计
- 输出与调光信号隔离
- 独立式，恒流模式
- 防雷等级：差模6KV，共模10KV
- 保护功能：防雷保护(SPD)/短路保护(SCP)/过压保护(OVP)/过温保护(OTP)
- 铝外壳；IP67防护等级
- 5年质保

- Isolation
- AC/DC dual-use
- Input Voltage: 249-528Vac, 360-825Vdc
- High PF, Low THD, High Efficiency
- Constant power design
- Output and Dimming Signal Isolating
- Independent，Constant Current Mode, Surge protection: 6/10KV
- SPD/SCP/OVP/OTP protection
- Aluminium case, Protection level: IP67
- 5 years warranty

功能特性 / FUNCTION FEATURES

- 可关断
- 10-100%无级调光
- 0-10V/PWM/可调电阻
- 正反逻辑可根据客户需求自定义选择
- 离线编程
- 支持午夜关灯及午夜调光

- Dim-to-off
- 10-100% stepless dimming
- 0-10Vdc, PWM, Adjustable resistor
- Positive and Reverse Logic can be customized as request
- off-line programmable
- Support turning off lights and dimming at midnight

功率/ POWER

30W 50W 100W 150W 200W 250W

应用/ APPLICATIONS

隧道照明 Tunnel lighting | 道路照明 Street lighting | 景观照明 Landscape lighting | 植物照明 Plant lighting | 建筑照明 Architectural lighting | 工业照明 Industrial lighting

产品选型表 / PRODUCT SELECTION TABLE

系列 型号 Model	额定功率 Rated power	输出电压范围 Output Voltage	满功率电流可调范围 Constant power voltage	默认输出 Default Output Current Setting(A)	典型效率 Typical Efficiency	典型PF值 Power Factor	尺寸 (L*W*H)
HVDC750-030-042MX	30W	20-42V	0.70-1.25A	0.70A	86%	0.96	165*69*42mm
HVDC750-050-042MX	50W	32-42V	1.20-1.40A	1.20A	88%	0.98	165*69*42mm
HVDC750-050-143MX	50W	80-143V	0.35-0.50A	0.35A	87%	0.98	204*69*42mm
HVDC750-100-056MX	100W	22-56V	1.78-2.97A	2.10A	88%	0.98	204*69*42mm
HVDC750-100-185MX	100W	75-185V	0.54-1.05A	1.05A	88%	0.98	204*69*42mm
HVDC750-150-056MX	150W	22-56V	2.67-4.20A	3.15A	91%	0.98	204*69*42mm
HVDC750-150-215MX	150W	85-215V	0.70-1.40A	1.05A	91%	0.98	204*69*42mm
HVDC750-200-056MX	200W	22-56V	3.57-5.40A	4.20A	93%	0.98	255*69*42mm
HVDC750-200-191MX	200W	96-191V	1.05-1.50A	1.05A	93%	0.98	255*69*42mm
HVDC750-250-056MX	250W	22-56V	4.46-6.70A	5.20A	94%	0.98	255*69*42mm
HVDC750-250-228MX	250W	114-228V	1.05-1.75A	1.05A	94%	0.98	255*69*42mm

注：1.X=A/B，表示A版金属外壳或B版金属外壳。 2.需要与直流电源柜配套使用。
1. X=A/B, which means A version of the metal case or B version of the metal case.
2. It needs to be matched with DC power supply cabinet.

选型手册 – LED驱动电源 – 户外照明

LED隧道灯
LED Tunnel Light



配件
Accessories



产品特性 / PRODUCT FEATURES

- 功率50W 100W 150W 200W 250W 300W可选。
- 整灯光效可达130lm以上，可定制。
- 专用模具设计，压铸铝套件简单设计；灯形体积小,可节省运输和安装成本。
- 优化冷却风道，左右风道交换散热，灯身底部配备有排气孔，进一步提高散热效果。
- 体积小，重量轻，易于安装。
- 采用1060铝，性能优异，能达到一般铝合金难以达到的要求。达到热导率。
- 广泛使用隧道、广场、运动场地、桥梁等照明。
- 5年质保

- Power Options: 50W, 100W, 150W, 200W, 250W, 300W
- Luminous Efficacy: Up to 130 lm/W (customizable)
- Design Features:
- Dedicated mold design with die cast aluminum housing; compact form factor reduces transport and installation costs.
- Optimized cooling channel with left right air flow exchange; exhaust vents at the bottom further improve heat dissipation.
- Compact, lightweight, and easy to install.
- Made of 1060 aluminum for superior performance and high thermal conductivity, exceeding ordinary aluminum alloys.
- Applications: Suitable for tunnels, squares, sports fields, bridges, and other lighting projects.
- Warranty: 5 years

产品选型表 / PRODUCT SELECTION TABLE

型号 Model	STL-TL050W-C	STL-TL100W-C	STL-TL150W-C	STL-TL200W-C	STL-TL250W-C	STL-TL300W-C
输入功率 Input Power	50W	100W	150W	200W	250W	300W
输入电压 Input Voltage	AC100-240V					
LED类型 LED Type	SMD3030或2835					
整灯光通量 Total Luminous Flux	6500LM	13000LM	16500LM	26000LM	32500LM	39000LM
整灯光效 Luminous Efficacy	>130LM/W(可定制customizable)					
颜色 Color Temperature	3000K,4000k,5000k,5700k,6000K, 6500K					
材质 Material	采用高导热1060铝+pc透镜+玻璃 (Constructed with high-thermal-conductivity 1060 aluminum, a PC lens, and a glass cover.)					
显指Color Rendering Index (CRI)	>70					
功率因数 Power Factor	>0.95					
工作环境温度 Operating Temperature	-30°C to +50°C					
防水等级 IP Rating	IP65					
抗冲击等级 IK Rating	IK08					
发光角度 Beam Angle	(60*120)(30)(60)(90)(30*70)					
质保时间 Warranty Period	5 年(years)					
使用寿命 Lifetime	50000小时(hours)					
产品尺寸 Product Dimensions	350*75*75mm	350*155*75mm	350*240*75mm	350*315*75mm	350*395*75mm	350*475*75mm
包装尺寸 Package Dimensions	365*175*150mm	365*175*150mm	365*265*150mm	365*330*150mm	365*415*150mm	365*500*150mm
净重 Net Weight	2.1KG	3.25KG	3.95KG	4.95KG	5.38KG	7.41KG
毛重 Gross Weight	2.7KG	4.1KG	4.9KG	6.12KG	6.58KG	8.65KG

电源编程器 / PROGRAMMING DEVICE

- 三合一LED电源离线编程器
- USB供电
- 配合中科兆明多合一编程软件使用

- 3-in- LED driver offline programmer;
- USB Power Supply;
- Used with STL Programmer Software.



Zigbee编程器 / ZIGBEE PROGRAMMER

- Zigbee智能编程配件
- USB供电
- 配合中科兆明多合一编程软件使用

- Zigbee Intelligent Programming Accessory;
- USB Power Supply;
- Used with STL Programmer Software.



红外编程器 / INFRARED PROGRAMMER

- 红外编程器
- 配合中科兆明多合一编程软件使用
- Infrared Programmer;
- Used with STL Programmer Software.



远距离供电系统
Long-Distance Power Supply System



高速公路建设中，高速公路摄像头、信息化显示屏等电子设备越来越多，距离越来越远，随之而来的问题是这些电子产品的供电问题如何解决？最初的配电室常常与新建的监控点和信息显示设备相距几公里甚至十几公里，如果采用220VAC（380VAC）低压供电，那么经过几公里后的线路压降，到用电设备端的电压就远远不能满足供电要求，同时线路大幅度压降还会造成巨大的能源浪费；

为此，根据我们多年来使用模块化热插拔式高精密稳压电源的实际经验，提出一种适合于高速公路上长距离，小容量的远距离供电系统。

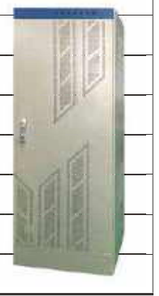
In expressway construction, electronic devices like cameras and information displays are increasing and installed farther apart, posing power supply challenges. Distribution rooms are often kilometers away from these devices. Using 220V/380V low-voltage power over such long distances results in excessive voltage drop and energy waste. Based on years of experience with modular, hot-swappable high-precision regulated power supplies, we propose a long-distance power supply system suitable for small-capacity loads on expressways.

交流电源发生器 / AC POWER GENERATOR

- 采用PWM控制 IGBT技术；
- 采用数字控制器，实现电压无级调节；
- 具有过流、过压保护功能；
- 软件和硬件均采用抗干扰设计，提高抗干扰能力；
- 提供设备自诊断功能，方便设备的维护；
- 输出精度高（±1%）；
- LCD中文显示电流、电压；
- 上电自动投入功能，来电无须重新启动；
- 输出过压、欠压、过载保护；
- 设有遥控和通讯接口，方便与计算机控制系统连接；
- 模块化热插拔技术，当稳压模块拔出后，仍然能够向系统提供电源；
- RS232/485通讯接口，Modbus通讯协议；
- 具有安全的电子旁路控制系统，确保设备在任何情况下（包括任何控制元件故障）的零切换、不断电输出。

- Utilizes PWM-controlled IGBT technology
- Digital controller enables stepless voltage regulation
- Overcurrent and overvoltage protection functions
- Anti-interference design in both software and hardware
- Device self-diagnostic function for maintenance
- High output accuracy (±1%)
- LCD displays current and voltage
- Automatic power-on activation without manual restart
- Output overvoltage, undervoltage, and overload protection
- Remote control and communication interfaces for system integration
- Modular hot-swap technology maintains power supply during module replacement
- RS232/485 communication interfaces with Modbus protocol
- Secure electronic bypass control system ensures zero switching and uninterrupted power output under any conditions (including control component failure)

产品型号 Product Model	STL-S-2KVA STL-S-5KVA STL-S-10KVA STL-S-20KVA STL-S-30KVA STL-S-50KVA STL-S-3KVA STL-S-7.5KVA STL-S-15KVA STL-S-25KVA STL-S-40KVA （可定制）
额定工作电压 Rated Operating Voltage	220VAC±15% 或 380VAC± 15%（± 20% 可选）220VAC ±15% or 380VAC ±15% (±20% optional)
额定工作频率 Rated Operating Frequency	50Hz±15%
额定输出交流电压 Rated Output AC Voltage	可定制，给定值±1%;输出电压范围为交Vout=800V+KI，当高于设定值10%时能自动保护 Customizable, setting value ±1%; output voltage range is AC Vout=800V+KI, automatic protection will be activated when the voltage exceeds 10% of the set value.
输出方式 Output Mode	交流两相 Two-phase AC
电子旁路 Electronic Bypass	零切换电子旁路 Zero-switching electronic bypass
结构 Structure	模块化热插拔式结构 Modular hot-swappable structure
效率 Efficiency	>94%
工作温度 Operating Temperature	-20°C~+70°C
存储温度 Storage Temperature	-40°C~+85°C
相对湿度 Relative Humidity	0-95%，无凝露 non-condensing
噪音 Noise	距 1m处<50db <50 dB at 1 meter distance
海拔高度 Altitude	0-3500m



交流隔离电源转换器 / AC ISOLATED POWER CONVERTER

- 采用 PWM 精细电压调节技术；
- 采用数字控制器，实现电压无级调节；
- 具有过流、过压保护功能；
- 电流电压显示；
- 软件和硬件均采用抗干扰设计，提高抗干扰能力；
- 输出精度高；
- 上电自动投入功能，来电无须重新启动；
- 带有上电过零启动功能；
- 带有时序控制功能，上电时各控制点采取步进式上电方式，防止瞬间启动对线路造成的大电流冲击；
- 设有遥控和通讯接口，方便于计算机控制系统连接；
- 线路全部进行防潮处理，适于潮湿地区使用；
- 模块化热插拔技术，当稳压模块拔出后，仍然能够向系统提供电源。

- Utilizes PWM technology
- Digital controller enables stepless voltage regulation
- Overcurrent and overvoltage protection functions
- Current and voltage display
- Anti-interference design in both software and hardware
- High output accuracy
- Automatic power-on activation without manual restart
- Zero-crossing startup function
- Sequential control with stepwise power-up method to prevent inrush current
- Remote control and communication interfaces for system integration
- Moisture-proof treatment on circuits for humid environments
- Modular hot-swap technology maintains power supply during module replacement

产品型号 Product Model	STL-T-0.5KVA STL-T-2KVA STL-T-5KVA STL-T-10KVA STL-T-1KVA STL-T-3KVA STL-T-7.5KVA STL-T-15KVA
输入电压 Input Voltage	电源发生器输出电压±15%（±20%可选）Output voltage of the power generator: ±15% (±20% optional)
额定工作频率 Rated Operating Frequency	50Hz ± 15%
额定输出电压 Rated Output Voltage	220Vac ± 3%
输出方式 Output Mode	交流两相 Two-phase AC
电子旁路 Electronic Bypass	零切换电子旁路 Zero-switching electronic bypass
结构 Structure	模块化热插拔式结构 Modular hot-swappable structure
效率 Efficiency	>90%
工作温度 Operating Temperature	-20°C~+70°C
存储温度 Storage Temperature	-40°C~+85°C
相对湿度 Relative Humidity	0-95%，无凝露 non-condensing
噪音 Noise	距1m处<50db <50 dB at 1 meter distance
海拔高度 Altitude	0-3500m



稳压电源
Stabilized Voltage Supply



产品特性 / PRODUCT FEATURES

- 采用PWM 控制IGBT技术；
- 采用数字控制器，实现电压无级调节；
- 电磁兼容，输出纯正弦波，电压平滑连续调节；
- 能量四象限流通，适应阻性、容性、感性等负载；
- 绿色环保，无污染；
- 输出精度高（±1%），国际领先；
- 响应速度快，对电网波动作出us级调整反应；
- 具有安全的电子旁路控制系统，确保设备在任何情况下（包括任何控制元件故障）的零切换、不断电输出；

- PWM-controlled IGBT technology;
- Digital controller enables stepless voltage adjustment;
- Electromagnetic compatibility; pure sine wave output; smooth continuous voltage regulation;
- Energy quadrants circulation compatible with resistive, capacitive, inductive loads;
- Green and eco-friendly; pollution-free;
- Highest output accuracy (±1%), internationally leading;
- Fast response speed; μs-level adjustment to grid fluctuations;
- Secure electronic bypass control system ensures zero switching and uninterrupted power output under any conditions (including control component failures).





- 具有RTU软硬件接口，方便接受监控中心的远程控制；
- 三相独立调节，可带100%不平衡负载；
- LCD 中文显示；
- 故障及状态显示，故障记录不少于100条；
- 输出过压、欠压、过载保护；
- 启动自适应功能；
- 智能风扇控制功能；
- 模块化热插拔技术；
- RS232/485通讯接口，Modbus通讯协议；安全的旁路控制系统。

- Equipped with RTU hardware/software interfaces for remote control by monitoring centers;
- Three-phase independent regulation capable of handling 100% unbalanced loads;
- LCD display;
- Fault/status indication with ≥100 fault records;
- Output over-voltage/under-voltage/overload protection;
- Self-adaptive startup function;
- Intelligent fan control;
- Modular hot-swap technology;
- RS232/485 communication interfaces with Modbus protocol; Secure bypass control system.

高精密交流稳压电源 / HIGH-PRECISION AC REGULATED POWER SUPPLY

容量 Capacity	KVA	单相Single-phase3-80KVA；三相 Three-phase 10-1000KVA
输入 Input	电压 Voltage	单相Single-phase 220V；三相 Three-phase 3X380V+N
	调节范围 Adjustment Range	±15%（20%-50%可选定optional）
	频率 Frequency	40~60Hz
输出 Output	电压 Voltage	单相Single-phase 220V；三相 Three-phase 3X380V+N
	输出精度 Output Precision	±1%
	频率 Frequency	40~60Hz
	输出调节范围 Output Adjustment Range	190~235V
	允许过载 Allowable Overload	<110%（30分钟minutes）；125%（10分钟minutes）
	谐波畸变 Harmonic Distortion	无 None
	效率 Efficiency	>97%
	功率因数 Power Factor	0.5 滞后到0.7 超前 0.5 lag to 0.7 lead
	不平衡负载能力Unbalanced Load Capacity	100%
旁路 Bypass	自动旁路 Automatic Bypass	各相独立 Each phase independent
	切换时间 Switching Time	零 Zero
显示 Display	全数字智能显示Full Digital Intelligent Display	大屏幕 LCD 中文显示 Large-screen LCD Chinese display
保护 Protection	输入过压/欠压保护输出过压/欠压保护、过载保护、4路自定义保护 Input overvoltage/undervoltage protection, output overvoltage/undervoltage protection, overload protection, 4-channel custom protection	
环境 Environment	运行环境温度 Operating Ambient Temperature	室内型Indoor type：（-20°C-+60°C）
	相对湿度 Relative Humidity	0-95%无冷凝 non-condensing
	海拔高度 Altitude	2500米 meters
	使用寿命 Service Life	>100000H
	MTTR	<30MIN
	噪音（1米处）Noise (at 1 meter)	<40dB
其他 Others	工作温度 Operating Temperature	（-20°C-+60°C）
	存储温度 Storage Temperature	（-30°C -+70°C）
	防护等级（室内）Protection Grade (Indoor)	IP30
	防护等级（室外）Protection Grade (Outdoor)	IP54
通讯接口 Communication Interface		RS485

选型手册 I 稳压电源