# Parameters of Asian Intelligent Lighting Distribution Box




## Overview

LY01 Low Voltage Distribution Box – Intelligent Lighting Box The intelligent lighting distribution box is equipped with smart driver modules, enabling auto.

## Key Takeaways

Asian intelligent lighting distribution boxes are designed for automated, flexible, and energy-efficient lighting control, with rated voltages up to AC 380 V, main busbar currents from 10 A to 100 A, and integrated smart monitoring and surge protection.

## Electrical Specifications

Rated Operational Voltage (Ue): AC 380 VRated Frequency (fn): 50 HzRated Current of Main Busbar (InA): 10 A to 100 ARated Short-Time Withstand Current (Icw): 4. 5 kAEnclosure Type: IndoorDegree of Protection: IP30 for operating face, IP20C for other surfaces Intelligent Control FeaturesEquipped with smart driver modules that allow automated control of lighting brightness and power switching. Sensors and drivers (motion detectors, brightness sensors, switch drivers) communicate via a bus system, enabling programmable control without physical rewiring.

Software-configurable logic allows adjustments to lighting behavior, timing, and control rules, enhancing energy efficiency and adaptability for modern buildings. Some systems include infra-red or touch-panel programming, enabling easy reconfiguration of luminaire settings and presence-based control.

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### Surge Protection and Monitoring

Integrated lightning and surge protection with professional surge arresters and grounding technology to minimize residual voltage. Monitors voltage, current, power, frequency, and phase angle of the external power grid. Provides real-time and historical data for maintenance and remote monitoring via communication interfaces.

Supports hot-plug modules, allowing replacement or upgrades without system downtime. Installation and FlexibilityWall-mounted or embedded installation with adjustable box sizes to meet power distribution requirements. Box doors can open at angles of at least 90°, providing easy access for maintenance.

Compact, firm design with independent sealing spaces ensures electromagnetic compatibility and operational safety.

### Operational Benefits

Enhances energy efficiency through occupancy and daylight-based control. Provides adaptive lighting for different zones, ensuring uniform illumination and safety. Supports remote monitoring and unattended operation, improving maintenance efficiency and system reliability.

These parameters make Asian intelligent lighting distribution boxes suitable for commercial, industrial, and smart building applications, combining robust electrical performance with advanced intelligent control and monitoring capabilities.

## Article Content

LY01 Low Voltage Distribution Box – Intelligent Lighting Box

The intelligent lighting distribution box is equipped with smart driver modules, enabling automated control of power switching and lighting brightness through external sensors and predefined logical

Energy Storage Intelligent Light Distribution Box Modern Home

Equipped with smart driver modules, our boxes enable automated power switching and lighting brightness control via external sensors. Supporting DALI-2, KNX, 0-10V, and MODBUS RTU

Jp Integrated Distribution Box (Compensation control terminal lighting)

Transformers, cables, distribution boxes and various electrical equipment, such as vacuum circuit breakers, load breaking switches, etc. Our factory is an excellent supplier of the State Grid

Intelligent power distribution box-Intelligent power distribution box ...

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The intelligent lightning protection distribution box is composed of the external power grid acquisition, lightning protection monitoring and distribution system, and the voltage, current, power, frequency

“PHLTD Penghan”: Shining in the World Stage Lighting Field with Its ...

The “PHLTD Penghan” stage lighting distribution box is a comprehensive “stage power distribution” solution that integrates efficiency, safety, and intelligence.

Lighting Distribution Box Market by Applications: Vietnam ...

The Lighting Distribution Box Market is undergoing a technological transformation driven by innovations in IoT connectivity, smart automation, and safety features.

Japan Lighting Distribution Box Market 2026: Key ...

The study evaluates regional demand trends, distribution networks, consumer behavior, and regulatory environments that influence the Lighting Distribution Box industry within Japan.

Lighting Distribution Box & Electrical Distribution Box

China leading provider of Lighting Distribution Box and Electrical Distribution Box, Wuxi Fenigal Science & Technology Co., Ltd. is Electrical Distribution Box factory.

IoT-Based Lighting Panel Distribution Control Design for Smart

Design From the communication and wiring diagram of the IoT devices in the lighting distribution panel control system, the overall communication and wiring diagram can be illustrated in Figure 12.

A Distributed Intelligent Lighting Control System Based on Deep

This paper also includes the construction of a prototype box on which the system is evaluated in two distinct circumstances. The results of the tests demonstrate that the system

Working principle of lighting distribution box

Residential lighting distribution box Lighting distribution box is a low-voltage lighting distribution box composed of switchgear, measuring instruments, protection appliances and auxiliary equipment

Lighting Distribution Box: Safety, Efficiency, and Convenience in ...

Discover the essential functions and benefits of the lighting distribution box for optimized electrical lighting. Enhance safety, save on energy costs, and simplify installation with our advanced lighting

Intelligent panelboard for lighting control and energy ...

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The manufacturer of the lighting control panelboard shall be regularly engaged in manufacture of electrical distribution equipment, lighting control and/or energy management equipment of types and

Lighting Distribution Box Market Size by Region 2025: China

□□ Download Sample |□□ Special Discount | □□ Buy Now The Lighting Distribution Box Market, valued at 14 billion in 2025, is expected to grow at a CAGR of 8.61% from 2026 to 2033, reaching 22.

Lighting Distribution Box Market Size 2026

The Lighting Distribution Box market is poised for significant growth from 2026 to 2033, driven by evolving consumer demand, technological advancements, and global industry trends.

Lighting Distribution Box

Lighting Distribution Box We manufacture high-quality lighting distribution boxes for residential and commercial applications. Our boxes feature a modular design with 4-24 positions, supporting 220V

Understanding XM Low Voltage Lighting Distribution Box: Your

Discover the essential guide to XM Low Voltage Lighting Distribution Boxes, designed for homeowners and electricians seeking optimal lighting solutions. This comprehensive article delves

Lighting Distribution Panel

JUNON Lighting Distribution Panel, upgrading and adapting to the new information age, leading the industry in new standards, with very good quality and

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