GUANGDONG DONE POWER TECHNOLOGY CO., LTD

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2026.11

DONE LIGHTING SYSTEM SOLUTIONS

Road · Tunnel · Industrial Special Lighting

Road lighting

Tunnel lighting

Industrial lighting

Explosion-proof lighting









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ABOUT US







DONE is a comprehensive brand enterprise that integrates the R&D, manufacturing, sales, and servicing of power supply products. Since its founding in 2009, the company has been guided by the vision of becoming a "Global Professional Power Supply Provider," with a strategic focus on the lighting and industrial application markets. Committed to excellence, DONE delivers premium power supply solutions to customers around the world. Over the years, DONE has developed a well-rounded product portfolio that provides extensive coverage across both the lighting and industrial power supply sectors, effectively addressing the diverse needs of various market segments. Its lighting power supplies serve a wide range of applications, including road and tunnel lighting, industrial and specialty lighting, plant lighting, fishery lighting, sports lighting, UV curing, architectural and building lighting, landscape and cultural tourism lighting, and smart home systems. On the industrial side, DONE's power supplies are widely used in industrial control and automation, new energy, medical equipment, battery charging and swapping, power distribution systems, and consumer power supply systems, among others.

As a key high-tech enterprise recognized under the National Torch Program, a specialized and sophisticated SME, and a model intellectual property enterprise, DONE remains at the forefront of technological innovation. The company has been accredited as both a provincial and municipal engineering technology research center and holds over 150 national patents, of which more than 50 are invention patents. DONE has also played an active role in shaping industry standards, contributing to the drafting of multiple industry and group standards in areas such as industrial lighting, road lighting, tunnel lighting, and industrial control—reinforcing its reputation as a driver of industry progress. The company is certified under ISO9001, ISO14001, and ISO45001, and operates environmental testing laboratories and test centers that meet national standards, ensuring robust reliability design and sustained product development across diverse product types and complex application environments.

In terms of business operations and sustainable development, DONE is dedicated to deep cultivation and meticulous efforts in the power supply industry, continuously upgrading its business models and operational platform infrastructure. It has established a multi-platform collaborative operating system with **"DONE Power, DONE Electronics, DONE Energy, and DONE Precision"** as its core carriers.

Within DONE's operational framework, **DONE Power focuses on LED drivers as its core business**, operating two divisions—the Public Lighting LED Driver Division and the Smart Lighting LED Driver Division. These primarily serve municipal, roadway, tunnel, industrial, and specialty lighting sectors. Anchored by its proprietary "DONE Cloud Smart Control System," the company is dedicated to developing intelligent, low-carbon lighting power solutions that support green upgrades to urban infrastructure. **DONE Electronics specializes in switching power supplies**, serving industrial controls, landscape lighting, signage, and indoor smart applications, delivering stable and reliable systematic power support to customers. **DONE Energy concentrates on ultra-high-power supplies**, targeting high-growth emerging fields such as bio-illumination, fisheries, plant lighting, sports lighting, UV curing, and centralized power distribution. **DONE Precision operates as a lean production platform**, undertaking lean manufacturing tasks across all of DONE's product lines. Leveraging a standardized in-house production system and an integrated "DONE Manufacturing" quality management platform, it ensures end-to-end quality control and efficient delivery—from raw materials to finished products. This robustly supports the scaled growth and coordinated operations of each product line, providing a solid manufacturing foundation for DONE's market expansion across diverse scenarios.

Looking to the future, DONE will stay true to its core mission of being a "Global Professional Power Supply Provider," with power supply products remaining at the heart of its business. The company will continue to refine its lighting and industrial power supply offerings, stay closely attuned to market needs, and strengthen its competitive position in the power supply industry for the new era.

Xinmao Industrial Park

30000m² Park area	**2500m²** Reliability Verification Center
120+ Technical personnel	**86** Product performance tests
150+ National patents	**12** Power supply production lines

Yuxiang Industrial Park

70000m² Industrial Park building area	**7000m²** Intelligent automated unmanned warehousing
RMB210 million Total investment	**50%** Human-to-machine ratio
8 Fully intelligent automated production lines	**2026** Planned production start time

VISION

To be a century-old company , striving to be a global professional power supply provider.

MISSON

Dedicate to the development of power supplies around the world, to create values for clients, employees, shareholders and society by utilizing our professional skill and high quality service.

VALUE

Honesty / Practicability / High efficiency / Responsibility

PHILOSOPHY

To be a customer and contributor oriented company, never stop hard working, adhere to self-enhancing.

SPIRIT

Taking responsibility, Improving continuously, Executing systematically, Pursuing excellence.

COMPANY HISTORY

2009 -The predecessor of DONE, **"Guzhen Lingling Electronics Factory,"** was established.
-Focused on small and medium-power power supply products for both outdoor and indoor applications.

2011 -Systematically established R&D, quality control, and manufacturing centers;
-Set up a domestic marketing center and multiple service outlets across various regions, initially forming a nationwide sales and service network.

2013 -Construction began on Phase I of the Xinmao Factory (25,000㎡), laying the foundation for production capacity expansion.
-Fully pursued international product certifications, obtaining CE, UL, TUV and other certificates, and officially entered the overseas market.

2009-2013
Start-up

2014 -The company was renamed **"Zhongshan DONE Lighting Technology Co., Ltd.";**
-Registered the "DONE" brand trademark and launched a visual identity system for brand-oriented operations;
-Participated in international exhibitions such as those in Turkey, Dubai, Thailand, and the Canton Fair, accelerating overseas expansion.

2015 -The Xinmao Phase I factory was put into operation, and the company relocated from Guzhen to the new Henglan facility, upgrading both production capacity and office environment;
-Officially established an International Marketing Department to focus on overseas market expansion;
-Recognized as a Above Designated Size Enterprise by the Ministry of Industry and Information Technology, earning government recognition of its capabilities.

2016 -Production lines expanded to 16, with power supply sales ranking among the top in the country;
-To meet continuously growing demand, construction began on the Xinmao Phase II factory.

Brand Expansion
2014-2016

2017 - The Xinmao Phase II factory was completed and put into operation;
- Clearly established high-power LED drivers as the core business direction;
- Added SMT and high-power workshops to strengthen industrial chain supporting capabilities;
- The company was recognized as the Zhongshan Municipal Engineering Technology Research Center;
- Expanded the R&D center and established core engineering validation processes, strengthening high-power technology development and organizational construction.

2018 - Established Shenzhen and Ningbo operation centers to deeply cultivate the East China and South China markets;
- Expanded the Innovation and Reliability Verification Center by 2,500m².

2019 - Received national certification as a High-Tech Enterprise, joining the ranks of innovation-driven companies;
- Advanced the implementation of Xinmao Phase III, expanding the R&D and Validation Center by 2,000m².

2017-2018
Transformation & Upgrading

2020 - The company was renamed **"GUANGDONG DONE POWER TECHNOLOGY CO., LTD ";**
- Selected as a "Specialized and Sophisticated Enterprise" in Guangdong Province, achieving a significant milestone on the path of specialization and refinement.
- Deepened its strategic focus on high-power and intelligent lighting technologies, building core competitive advantages.

2021 - Achieved a breakthrough in independent intellectual property with its first national invention patent: "Single-IC Driven Multi-Channel Single-Stage PFC Parallel Circuit and Operating Method Thereof."

- The Beijing–Xiong'an Expressway Beijing Section smart highway demonstration project was successfully implemented;
- Recognized as the Guangdong Provincial Enterprise Technology Center;

2022 - Achieved ISO triple-system certification, with management operations moving toward standardized and internationalized practices.

- Received dual recognition as both the Zhongshan Municipal Engineering Technology Research Center and the Guangdong Provincial Engineering Technology Research Center;
- Participated in international exhibitions such as Light + Building in Frankfurt, and the Hong Kong International Lighting Fair, enhancing global presence.

Rapid development
2020-2022

2023 - Added 2 new automated production lines, entering a fast track for business expansion;
- Participated in the implementation of a national-level event engineering project — the Chengdu Universiade Dong'an Lake Sports Park project;
- Established **Guangdong DONE Electronics Technology Co., Ltd. (abbreviated as DONE Electronics)**, focusing on the constant voltage business segment;
- Reached cooperation agreements with leading distributors in key markets such as Turkey, Brazil, and Russia;
- Broke ground on the DONE Smart Factory Yuxiang Base, taking a key step toward intelligent manufacturing.

2024 - Successively retained the titles of Guangdong Provincial Enterprise Technology Center and Intellectual Property Demonstration Enterprise;
- The validation center received national CNAS accreditation, continuously raising the technical barriers.

2025 - The first integrated intelligent solution facilitated the implementation of lighting applications in Wengyuan, Shaoguan;
- Established **Guangdong DONE Energy Technology Co., Ltd. (abbreviated as DONE Energy)**, focusing on the high-power lighting business segment;
- Formally established the positioning as a "Global Professional Power Supply Provider," forming a group structure comprising three core business divisions: DONE Power, DONE Electronics, and DONE Energy.

2026 and Future -Established **Guangdong DONE Precision Industry Co., Ltd. ("DONE Precision")**, built a lean production platform, and undertook lean manufacturing operations for the entire DONE product line.
-Secured the first international invention patent for the "Overshoot-Free Circuit for Continuous Power On/Off" solution, marking a major breakthrough in overseas intellectual property.
-Four automated production lines were put into operation at the Yuxiang base of the DONE Smart Factory, supporting the rapid expansion of business scale.
-Over the next three years, we will deepen our presence in the power supply and supporting industries, continuously consolidating our strategic positioning in the power supply sector.

2023-2028
Focused Deepening Phase

ENTERPRISE REALITY



SYSTEM CERTIFICATION



SGS Certification

Environmental Management System Certification

Quality Management System Certification

Intellectual Property Management System Certification

Occupational Health and Safety Management System Certification

CORPORATE HONORS



PATENT CERTIFICATEN

150+ Patents Granted

- **US Patent Certificate** (Patent No: 18464557-NOA-VISION-US-IP-0029):
  A circuit for continuous switching on and off without overshoot
- **Certificate of Invention Patent**(Patent No.:ZL202110678874.2):
  Input voltage secondary detection circuit and method of Operation
- **Certificate of Invention Patent**(Patent No.:ZL202210352712.4):
  A buck converter with series inductor monitoring and control

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50 Invention Patents



40 Utility Model Patents



60 Design Patents

PRODUCTNAMINGRULE

DL-110H-V56GX-MXK

Product Series
MX:Isolated Bipolar
MA:Isolated Unipolar
PX:Non-isolated Bipolar

Dimming mode/programming mode or specific functions
A:Non-dimmable, adjustable output current
F:NFC Programming
P:Programmable dimming
S:3-in-1 dimming (Non-programmable)
U: 3-in-1 Dimming+Auxiliary Power + Extra output wire
X: 3-in-1 Dimming+Auxiliary Power
T:NTC external temperature protection
J:RJ12/RJ25 & physical network ports + rotary dimming
C:Dual-color + dual-channel output
Y:Single-color + two-channel output
E:Single-color + three-channel output

Communication mode/protocol
T:CAT.1
L:LORA
D:DALI-2
G:DALI-2&D4I
R:RS485
Z:PLC
M:DMX512

Output voltage or output current

Product form identification
A:Product Form 1
(Non-fixed form, serves solely as an identification code to be defined by specific products)
B:Product Form 2
(Non-fixed form, serves solely as an identification code to be defined by specific products)
U: UART Digital Dimming Communication Protocol

Rated input voltage or input characteristics
Z: 100-277Vac wide voltage input
W: 120-277Vac wide voltage input
H: 200-277Vac input, or 100-277Vac (200-277Vac full load)
U: 277-480Vac ultra-high voltage input
V: 220-480Vac ultra-high voltage input
K:Europe CLASS II input
DU: 700V DC-DC input
DV: 400V DC-DC input

Output power of LED driver

Company Code

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MUG Programmable IP67 Waterproof LED Driver Series
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DONE

Public Lighting Product Line

Road Lighting LED Driver | Tunnel Lighting LED Driver | Industrial Lighting LED Driver | Explosion-proof Lighting LED Driver

Done Public Lighting Solutions: Empowered by Light, Serving as the Guardian of Urban Safety.

- IP67 Water & Dust Resistance
- 6KV/10KV Lightning Surge Protection
- IK08 Impact Resistance Rating
- Wide Voltage Input Range
- Safeguard Against Mains Power Misconnection on Dimming Wires
- Protection Against Input Voltage Miswiring
- Operating Temperature: -40°C to 55°C

Advantages of the public lighting product line

High Power Density

Incorporating an advanced circuit topology and utilizing third-generation semiconductor devices (SiC, GaN) to reduce size and increase power density.

Smart Programming

Combines versatile online/offline programming with simple one-step operation, providing the flexibility to adapt to a wide range of application needs.

High Efficiency

Significantly reduces energy consumption, delivering green efficiency and long-term cost savings.

Universal Protocol Dimming Compatibility

Supports a wide range of dimming standards including 0-10V/PWM, DALI-2, D4i, and timer dimming.



Smart Lighting Product Line

Smart Integration for Roads | Smart Integration for Tunnels | Smart Integration for Industrial Applications | Smart Integration for Sports Stadiums | Smart Integration for Horticulture

Done Smart Lighting Solution: Powered by intelligent control and energy savings, providing the essential power for urban lighting.

- IP67 Water & Dust Resistance
- 6KV/10KV Lightning Surge Protection
- IK08 Impact Resistance Rating
- Wide Voltage Input Range
- Multi-protocol Support
- Done's own dedicated control platform
- Operating Temperature: -40°C to 55°C

Advantages of the Smart Lighting Product Line

Universal Smart Communication

Supports a comprehensive range of smart communication technologies including Cat.1, LoRa, PLC, RS485, Bluetooth, and Zigbee.

Smart Cloud Control Platform

Seamlessly links with the Done's Cloud Control Platform, offering universal protocol compatibility for centralized remote management and control.

Precision Data Acquisition

Real-time monitoring of voltage, current, power, and energy consumption.

Early Fault Warning System

Boosts maintenance efficiency by providing real-time alerts for 11 fault types—such as over-voltage, under-voltage, power loss, and short circuits—preventing downtime.

Seamless Cloud Upgrade

Supports OTA updates for continuous optimization, ensuring the system remains up-to-date.





DONE POWER
PUBLIC LIGHTING PRODUCT LINE





MXG Programmable IP67/IP42 LED Driver Series



Application Area | Road Lighting, Tunnel Lighting, Stadium Lighting, Flood Lighting, Landscape Lighting

Product Features

- Compatible with Class I luminaires (Class II Optional)
- Constant current output LED driver
- Input voltage: 100/120-277Vac
- Efficiency: Up to 94.5%
- Auxiliary Output: 12V/300mA (specific models)
- Surge protection: DM 6KV, CM 15KV
- Protection rating: IP67/IP42
- Dimming: Programmable 0/1-10V/PWM/Res. Dimming, Timer Dimming, DALI-2
- Protection: OTP, OVP, OLP, SCP
- End-of-life warning, CLO
- Five-year warranty

MXG 30-500W, Programmable 3-in-1 Dimming, 12V Auxiliary Power

- Compatible with Class I luminaires
- Auxiliary Output: 12V/300mA
- Input voltage: 120-277Vac
- Surge protection: DM 6KV, CM 15KV
- Dimming: Programmable 3-in-1 Dimming (0/1-10V/PWM/Res.), Timer Dimming
- Output specifications: 25-56Vdc; 0.5-1.05A
- Protection rating: IP67
- Output power: 30-500W
- End-of-life warning, CLO

A: Current Adjustable via Potentiometer
P: Programmable 3-in-1 Dimming + Timer Dimming
X: Programmable 3-in-1 Dimming + Auxiliary Power

CB / CE / KC / SAA / RCM / EAC / FC / CLASS P / cULus

MXG-WK 50-240W, Class II, Programmable 3-in-1 Dimming

- Compatible with Class II luminaires
- Input voltage: 120-277Vac
- Protection rating: IP67
- Output specifications: 25-56Vdc; 0.5-1.05A
- Dimming: Programmable 3-in-1 Dimming (0/1-10V/PWM/Res.), Timer Dimming
- End-of-life warning, CLO
- Output power: 50-240W
- Surge protection: DM 6KV, CM 15KV

A: Current Adjustable via Potentiometer
P: Programmable 3-in-1 Dimming + Timer Dimmig

CE / KC / SAA / RCM / CB

MXG-DX 30-240W, DALI-2, 12V Auxiliary Power

- Compatible with Class I luminaires
- Auxiliary Output: 12V/300mA
- Input voltage: 120-277Vac
- Surge protection: DM 6KV, CM 15KV
- Output specifications: 25-56Vdc; 0.5-1.05A
- Protection rating: IP67
- Output power: 30-240W
- Dimming: DALI-2

DX: DALI-2 + 12V Auxiliary Power

DALI / CE / KC / RCM / SAA / EAC / CB

MDK 30-240W, IP42, Programmable 3-in-1 Dimming, 12V Auxiliary Power

- Compatible with Class I luminaires
- Auxiliary Output: 12V/300mA
- Input voltage: 120-277Vac
- Surge protection: DM 6KV, CM 10KV
- Dimming: Programmable 0/1-10V/PWM/Res. Dimming, Timer Dimming
- Output power: 30-240W
- Protection rating: IP42
- Output specifications: 25-56Vdc; 0.5-1.05A
- End-of-life warning, CLO

A: Current Adjustable via Potentiometer
P: Programmable 3-in-1 Dimming + Timer Dimming
X: Programmable 3-in-1 Dimming + Auxiliary Power

CB / CE / KC / RCM / FC / SAA / cULus

The detailed parameter please refer to our specification

MXG/MXG-WK 30-500W, Programmable 3-in-1 Dimming, 12V Auxiliary Power / 50-240W, Class II, Programmable 3-in-1 Dimming

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30W-V56A/P/X-MXG	30	120-277	25-56	30-56	0.30-1.00	85.0%	0.95	6/15KV	110*63*32
50W	DL-50W/WK-V56A/P/X-MXG	50	120-277	25-56	30-56	0.60-1.70	89.0%	0.95	6/15KV	110*63*32
	DL-50W/WK-V72A/P/X-MXG	50	120-277	36-72	48-72	0.50-1.05	89.0%	0.95	6/15KV	110*63*32
75W	DL-75W/WK-V56A/P/X-MXG	75	120-277	25-56	36-56	0.85-2.10	88.0%	0.95	6/15KV	138*63*32
	DL-75W/WK-V108A/P/X-MXG	75	120-277	54-108	72-108	0.50-1.05	89.0%	0.95	6/15KV	138*63*32
100W	DL-100W/WK-V56A/P/X-MXG	100	120-277	25-56	36-56	1.30-2.80	89.5%	0.95	6/15KV	153*63*32
	DL-100W/WK-V143A/P/X-MXG	100	120-277	71-143	95-143	0.50-1.05	91.0%	0.95	6/15KV	153*63*32
150W	DL-150W/WK-V56A/P/X-MXG	150	120-277	25-56	36-56	1.70-4.20	91.3%	0.95	6/15KV	186*63*32
	DL-150W/WK-V214A/P/X-MXG	150	120-277	95-214	143-214	0.50-1.05	92.3%	0.95	6/15KV	186*63*32
200W	DL-200W/WK-V56A/P/X-MXG	200	120-277	25-56	36-56	2.60-5.60	92.0%	0.95	6/15KV	199*63*37
	DL-200W/WK-V286A/P/X-MXG	200	120-277	143-286	190-286	0.50-1.05	93.5%	0.95	6/15KV	199*63*37
240W	DL-240W/WK-V56A/P/X-MXG	240	120-277	25-56	36-56	3.50-6.70	92.0%	0.95	6/15KV	217*63*37
	DL-240W/WK-V343A/P/X-MXG	240	120-277	171-343	228-343	0.5-1.05	94.0%	0.95	6/15KV	217*63*37
320W	DL-320Z-V56X-MXG	320	100-277	25-56	42-56	4.20-7.65	93.0%	0.97	6/15KV	244*83*40
	DL-320W-V56X-MXG	320	120-277	42-56	42-56	4.20-7.65	93.0%	0.97	6/15KV	244*83*40
	DL-320Z-195X-MXG	320	100-277	95-195	125-195	1.28-2.56	94.0%	0.97	6/15KV	244*83*40
	DL-320W-V428X-MXG	320	120-277	228-428	304-428	0.75-1.05	95.0%	0.97	6/15KV	244*83*40
400W	DL-400W-V56X-MXG	400	120-277	25-56	46-56	5.70-8.70	93.0%	0.95	6/15KV	244*83*40
	DL-400Z-V56X-MXG	400	100-277	25-56	46-56	5.70-8.70	93.0%	0.95	6/15KV	244*83*40
	DL-400Z-195X-MXG	400	100-277	95-195	125-195	1.60-3.20	94.0%	0.95	6/15KV	244*83*40
	DL-400W-V428X-MXG	400	120-277	228-428	286-428	0.75-1.40	94.0%	0.95	6/15KV	244*83*40
500W	DL-500W-V56X-MXG	500	120-277	25-56	46-56	5.70-10.80	94.0%	0.97	6/15KV	266*95*44
	DL-500W-V428X-MXG	500	120-277	228-428	357-428	0.75-1.40	94.0%	0.97	6/15KV	266*95*44

A: Current Adjustable via Potentiometer P: Programmable 3-in-1 Dimming + Timer Dimming X: Programmable 3-in-1 Dimming + Auxiliary Power

MXG-DX 30-240W, DALI-2, 12V Auxiliary Power

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30W-V56DX-MXG	30	120-277	25-56	30-56	0.30-1.00	89.0%	0.95	6/15KV	110*63*32
50W	DL-50W-V56DX-MXG	50	120-277	25-56	36-56	0.60-1.70	89.0%	0.95	6/15KV	110*63*32
	DL-50W-V72DX-MXG	50	120-277	36-72	48-72	0.50-1.05	89.0%	0.95	6/15KV	110*63*32
75W	DL-75W-V56DX-MXG	75	120-277	25-56	36-56	0.85-2.10	89.0%	0.95	6/15KV	138*63*32
	DL-75W-V108DX-MXG	75	120-277	54-108	72-108	0.50-1.05	90.0%	0.95	6/15KV	138*63*32
100W	DL-100W-V56DX-MXG	100	120-277	25-56	36-56	1.30-2.80	91.0%	0.95	6/15KV	153*63*32
	DL-100W-V143DX-MXG	100	120-277	71-143	95-143	0.50-1.05	91.0%	0.95	6/15KV	153*63*32
150W	DL-150W-V56DX-MXG	150	120-277	25-56	36-56	1.80-4.20	92.0%	0.95	6/15KV	186*63*32
	DL-150W-V214 DX-MXG	150	120-277	95-214	143-214	0.50-1.05	92.0%	0.95	6/15KV	186*63*32
200W	DL-200W-V56DX-MXG	200	120-277	25-56	36-56	2.60-5.60	93.5%	0.95	6/15KV	199*63*37
	DL-200W-V286DX-MXG	200	120-277	143-286	190-286	0.50-1.05	93.5%	0.95	6/15KV	199*63*37
240W	DL-240W-V56DX-MXG	240	120-277	25-56	36-56	3.50-6.70	94.0%	0.95	6/15KV	217*63*37
	DL-240W-V343DX-MXG	240	120-277	171-343	228-343	0.50-1.05	94.0%	0.95	6/15KV	217*63*37

DX: DALI-2 + 12V Auxiliary Power

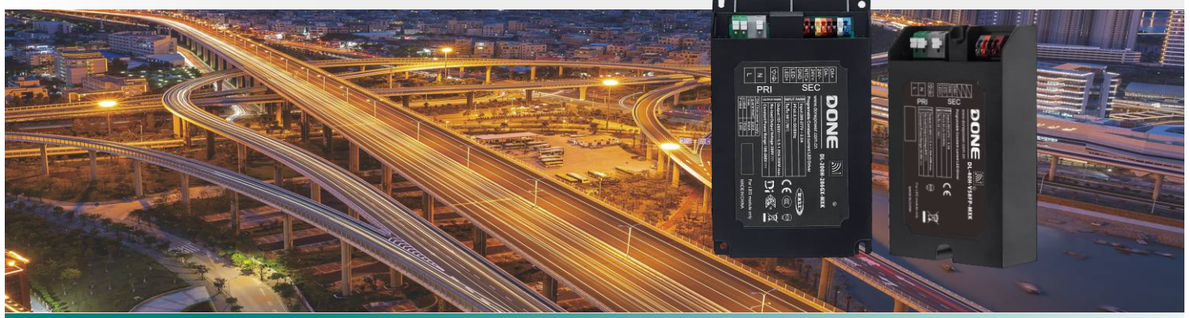
MDK 30-240W, IP42, Programmable 3-in-1 Dimming, 12V Auxiliary Power

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30W-V56A/P/X-MDK	30	120-277	25-56	30-56	0.30-1.00	85.0%	0.95	6/10KV	119*57*32
50W	DL-50W-V56A/P/X-MDK	50	120-277	25-56	30-56	0.40-1.70	89.0%	0.95	6/10KV	119*57*32
	DL-50W-V72A/P/X-MDK	50	120-277	36-72	48-72	0.50-1.05	89.0%	0.97	6/10KV	119*57*32
75W	DL-75W-V56A/P/X-MDK	75	120-277	25-56	30-56	0.85-2.10	89.0%	0.95	6/10KV	138*57*32
	DL-75W-V108A/P/X-MDK	75	120-277	54-108	72-108	0.50-1.05	90.0%	0.97	6/10KV	138*57*32
100W	DL-100W-V56A/P/X-MDK	100	120-277	25-56	36-56	1.30-2.80	89.5%	0.95	6/10KV	153*57*32
	DL-100W-V143A/P/X-MDK	100	120-277	71-143	95-143	0.50-1.05	91.0%	0.97	6/10KV	153*57*32
150W	DL-150W-V56A/P/X-MDK	150	120-277	25-56	36-56	1.70-4.20	91.3%	0.95	6/10KV	186*57*32
	DL-150W-V214A/P/X-MDK	150	120-277	95-214	143-214	0.50-1.05	92.0%	0.97	6/10KV	186*57*32
200W	DL-200W-V56A/P/X-MDK	200	120-277	25-56	36-56	2.60-5.60	92.0%	0.95	6/10KV	199*57*37
	DL-200W-V286A/P/X-MDK	200	120-277	143-286	190-286	0.50-1.05	93.5%	0.98	6/10KV	199*57*37
240W	DL-240W-V56A/P/X-MDK	240	120-277	25-56	36-56	3.50-6.70	93.0%	0.95	6/10KV	217*57*37
	DL-240W-V343A/P/X-MDK	240	120-277	171-343	228-343	0.50-1.05	94.5%	0.98	6/10KV	217*57*37

A: Current Adjustable via Potentiometer P: Programmable 3-in-1 Dimming + Timer Dimming X: Programmable 3-in-1 Dimming + Auxiliary Power

The detailed parameter please refer to our specification

MXK Zhaga NFC Programmable LED Driver Series



Application Area | Road Lighting, Flood Lighting

Product Features

- Compatible with Class Ⅰ / Ⅱ luminaires
- Dimming: DALI-2/D4i/1-10V dimming optional
- Protection: UVP, OTP, OVP, OCP, SCP
- Constant current output
- Auxiliary Output: : 24V/125mA (specific models)
- Input voltage: 200-277Vac
- Surge protection: DM 6KV, CM 10KV
- NFC programming, End-of-life warning, CLO
- Eight-year warranty
- Efficiency: Up to 94.5%
- Protection rating: IP20

MXK-FP 22-200W, NFC+Programmable 1-10V/PWM/Timer

- Compatible with Class Ⅰ / Ⅱ luminaires
- Output specifications: 0.5-1.05A
- Output power: 22-200W
- Dimming: Programmable 1-10V/PWM/Res. dimming, Timer dimming
- Surge protection: DM 6KV, CM 10KV
- Input voltage: 200-277Vac
- Protection rating: IP20

FP: Programmable 1-10V/PWM/Timer+NFC

CB / CE / SAA / / EAC

MXK-FX 22-200W, NFC+Programmable 1-10V/PWM/Timer +Auxiliary Power

- Compatible with Class Ⅰ / Ⅱ luminaires
- Output specifications: 0.5-1.05A
- Output power: 22-200W
- Auxiliary Output: 24V/125mA
- Dimming: Programmable 1-10V/PWM/Res. dimming, Timer dimming
- Surge protection: DM 6KV, CM 10KV
- Input voltage: 200-277Vac
- Protection rating: IP20

FX: Programmable 0/1-10V/PWM/Timer+24V/125mA+NFC

CB / CE / SAA / / EAC

MXK-FD 22-200W, NFC+DALI-2+Programmable +Auxiliary Power

- Compatible with Class Ⅰ / Ⅱ luminaires
- Output specifications: 0.5-1.05A
- Output power: 22-200W
- Auxiliary Output: 24V/125mA
- Surge protection: DM 6KV, CM 10KV
- Input voltage: 200-277Vac
- Protection rating: IP20
- Dimming: DALI-2

FD: Programmable DALI-2/Timer+24V/125mA+NFC

CB / CE / SAA / / DALI / EAC

MXK-GX 22-200W,NFC+DALI-2&D4i

- Compatible with Class Ⅰ / Ⅱ luminaires
- Output specifications: 0.5-1.05A
- Output power: 22-200W
- Auxiliary Output: 24V/125mA
- Supports Part 150/250/251/252/253, supports external NTC
- Surge protection: DM 6KV, CM 10KV
- Input voltage: 200-277Vac
- Protection rating: IP20
- Dimming: DALI-2+D4i

GX: Programmable DALI-2/Timer+D4i+24V/125mA+NFC

CB / CE / SAA / / DALI / D4i

The detailed parameter please refer to our specification

MXK-FP 22-200W, NFC+Programmable 1-10V/PWM/Timer

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
22W	DL-22H-V32FP-MXK	22	200-277	15-32	21-32	0.50-1.05	85.0%	0.97	6/10KV	133*77*33
40W	DL-40H-V58FP-MXK	40	200-277	25-58	38-58	0.50-1.05	87.0%	0.97	6/10KV	133*77*33
60W	DL-60H-V86FP-MXK	60	200-277	38-86	58-86	0.50-1.05	91.0%	0.97	6/10KV	133*77*33
80W	DL-80H-V115FP-MXK	80	200-277	46-115	76-115	0.50-1.05	89.0%	0.97	6/10KV	133*77*33
110W	DL-110H-V158FP-MXK	110	200-277	76-158	105-158	0.50-1.05	91.0%	0.97	6/10KV	133*77*33
165W	DL-165H-V235FP-MXK	165	200-277	104-235	157-235	0.50-1.05	93.0%	0.97	6/10KV	171*101*39
200W	DL-200H-V286FP-MXK	200	200-277	157-286	190-286	0.50-1.05	93.5%	0.97	6/10KV	171*101*39

FP: Programmable 1-10V/PWM/Timer+NFC

MXK-FX 22-200W, NFC+Programmable 1-10V/PWM/Timer+Auxiliary Power

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
22W	DL-22H-V32FX-MXK	22	200-277	15-32	21-32	0.50-1.05	85.0%	0.97	6/10KV	133*77*33
40W	DL-40H-V58FX-MXK	40	200-277	25-58	38-58	0.50-1.05	87.0%	0.97	6/10KV	133*77*33
60W	DL-60H-V86FX-MXK	60	200-277	38-86	58-86	0.50-1.05	91.0%	0.97	6/10KV	133*77*33
80W	DL-80H-V115FX-MXK	80	200-277	46-115	76-115	0.50-1.05	89.0%	0.97	6/10KV	133*77*33
110W	DL-110H-V158FX-MXK	110	200-277	76-158	105-158	0.50-1.05	91.0%	0.97	6/10KV	133*77*33
165W	DL-165H-V235FX-MXK	165	200-277	104-235	157-235	0.50-1.05	93.0%	0.97	6/10KV	171*101*39
200W	DL-200H-V286FX-MXK	200	200-277	157-286	190-286	0.50-1.05	93.5%	0.97	6/10KV	171*101*39

FX: Programmable 0/1-10V/PWM/Timer+24V/125mA+NFC

MXK-FD 22-200W, NFC+DALI-2+Programmable+Auxiliary Power

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
22W	DL-22H-V32FD-MXK	22	200-277	15-32	21-32	0.50-1.05	87.0%	0.97	6/10KV	133*77*33
40W	DL-40H-V58FD-MXK	40	200-277	25-58	38-58	0.50-1.05	87.0%	0.97	6/10KV	133*77*33
60W	DL-60H-V86FD-MXK	60	200-277	38-86	58-86	0.50-1.05	89.0%	0.97	6/10KV	133*77*33
80W	DL-80H-V115FD-MXK	80	200-277	46-115	76-115	0.50-1.05	90.0%	0.97	6/10KV	133*77*33
110W	DL-110H-V158FD-MXK	110	200-277	76-158	105-158	0.50-1.05	91.0%	0.97	6/10KV	133*77*33
165W	DL-165H-V235FD-MXK	165	200-277	104-235	157-235	0.50-1.05	94.0%	0.98	6/10KV	171*101*39
200W	DL-200H-V286FD-MXK	200	200-277	157-286	190-286	0.50-1.05	93.0%	0.99	6/10KV	171*101*39

FD: Programmable DALI-2/Timer+24V/125mA+NFC

MXK-GX 22-200W,NFC+DALI-2&D4i

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
22W	DL-22H-V32GX-MXK	22	200-277	15-32	21-32	0.50-1.05	85.0%	0.97	6/10KV	133*77*33
40W	DL-40H-V58GX-MXK	40	200-277	25-58	38-58	0.50-1.05	87.0%	0.97	6/10KV	133*77*33
60W	DL-60H-V86GX-MXK	60	200-277	38-86	58-86	0.50-1.05	91 .0%	0.97	6/10KV	133*77*33
80W	DL-80H-V115GX-MXK	80	200-277	46-115	76-115	0.50-1.05	90.0%	0.97	6/10KV	133*77*33
110W	DL-110H-V158GX-MXK	110	200-277	76-158	105-158	0.50-1.05	91.0%	0.97	6/10KV	133*77*33
165W	DL-165H-V235GX-MXK	165	200-277	104-235	157-235	0.50-1.05	94.0%	0.98	6/10KV	171*101*39
200W	DL-200H-V286GX-MXK	200	200-277	157-286	190-286	0.50-1.05	93.0%	0.99	6/10KV	171*101*39

GX: Programmable DALI-2/Timer+D4i+24V/125mA+NFC

The detailed parameter please refer to our specification

MXL-Z Programmable IP67 Waterproof LED Driver Series



Application Area | Road Lighting, Tunnel Lighting, Stadium Lighting, Flood Lighting, Landscape Lighting

Product Features

MXL-Z 40-320W, Programmable 3-in-1 Dimming

- Compatible with Class I luminaires
- Output power: 40-320W
- Efficiency: Up to 94.5%
- Constant current output LED Driver
- Protection rating: IP67
- Protection: OTP, OVP, SCP
- Input voltage: 100-277Vac
- Five-year warranty
- End-of-life warning, CLO
- Output specifications: 25-56Vdc; 0.5-1.05A
- Dimming: Programmable 0/1-10V/PWM/Res. dimming, Timer dimming
- Surge protection: DM 4/6KV, CM 6/10KV

A: Current Adjustable via Potentiometer P: Programmable 0/1-10V/PWM/Res. dimming, Timer dimming

CB / CE / / SAA / / E479166 / FC / EAC

MXL-Z 40-320W, Programmable 3-in-1 Dimming

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
40W	DL-40Z-56A/P-MXL	40	100-277	25-56	30-56	0.45-1.34	87.0%	0.95	4/6KV	105*53*33
50W	DL-50Z-56A/P-MXL	50	100-277	25-56	30-56	0.40-1.70	88.0%	0.96	4/6KV	105*63*33
	DL-50Z-72A/P-MXL	50	100-277	36-72	48-72	0.50-1.05	89.0%	0.96	4/6KV	105*63*33
60W	DL-60Z-56A/P-MXL	60	100-277	25-56	30-56	0.71-2.00	88.0%	0.97	4/6KV	105*63*33
	DL-60Z-86A/P-MXL	60	100-277	40-86	57-86	0.50-1.05	89.0%	0.97	4/6KV	105*63*33
80W	DL-80Z-56A/P-MXL	80	100-277	25-56	36-56	1.07-2.23	90.0%	0.97	6/10KV	120*63*33
	DL-80Z-115A/P-MXL	80	100-277	57-115	76-115	0.50-1.05	90.0%	0.97	6/10KV	120*63*33
100W	DL-100Z-56A/P-MXL	100	100-277	25-56	36-56	1.30-2.80	90.0%	0.97	6/10KV	130*63*33
	DL-100Z-72A/P-MXL	100	100-277	35-72	48-72	1.40-2.10	90.0%	0.97	6/10KV	130*63*33
	DL-100Z-143A/P-MXL	100	100-277	71-143	35-143	0.50-1.05	90.0%	0.97	6/10KV	130*63*33
150W	DL-150Z-56A/P-MXL	150	100-277	25-56	36-56	1.70-4.20	91.3%	0.97	6/10KV	165*63*33
	DL-150Z-107A/P-MXL	150	100-277	48-107	71-107	1.40-2.10	92.0%	0.97	6/10KV	165*63*33
	DL-150Z-214A/P-MXL	150	100-277	95-214	143-214	0.50-1.05	92.0%	0.97	6/10KV	165*63*33
200W	DL-200Z-56A/P-MXL	200	100-277	25-56	36-56	2.60-5.60	92.5%	0.97	6/10KV	176*63*37
	DL-200Z-143A/P-MXL	200	100-277	71-143	95-143	1.40-2.10	93.0%	0.97	6/10KV	176*63*37
	DL-200Z-286A/P-MXL	200	100-277	143-286	190-286	0.50-1.05	93.0%	0.97	6/10KV	176*63*37
240W	DL-240Z-56A/P-MXL	240	100-277	25-56	36-56	3.50-6.70	93.0%	0.97	6/10KV	185*63*37
	DL-240Z-171A/P-MXL	240	100-277	85-171	100-171	1.40-2.40	94.0%	0.97	6/10KV	185*63*37
	DL-240Z-343A/P-MXL	240	100-277	171-343	228-343	0.50-1.05	94.5%	0.97	6/10KV	185*63*37
320W	DL-320Z-56A/P-MXL	320	100-277	25-56	42-56	4.20-7.65	94.0%	0.97	6/10KV	244*63*37
	DL-320Z-229A/P-MXL	320	100-277	114-229	153-229	1.40-2.10	94.0%	0.97	6/10KV	244*63*37
	DL-320Z-428A/P-MXL	320	100-277	228-428	304-428	0.50-1.05	94.0%	0.97	6/10KV	244*63*37

A: Current Adjustable via Potentiometer P: Programmable 0/1-10V/PWM/Res. dimming, Timer dimming

The detailed parameter please refer to our specification

MXL-H Programmable IP67 Waterproof LED Driver Series new



Application Area | Road Lighting, Tunnel Lighting, Stadium Lighting, Flood Lighting, Landscape Lighting

Product Features

MXL-H/HK 60-250W, Programmable 3-in-1 Dimming, Class I/II

- Constant current output LED Driver
- Input voltage: 100-277Vac (200-277Vac full load)
- Output specifications: 25-58Vdc; 0.5-1.05A
- Output power: 60-250W
- Compatible with Class I luminaires (Class II Optional)
- Surge protection: DM 6KV, CM 10KV
- Dimming: Programmable 1-10V/PWM/Res. dimming, Timer dimming
- End-of-life warning, CLO
- Protection rating: IP67
- Efficiency : Up to 94.5%
- Protection: OTP, OVP,SCP
- Five-year warranty

A: Current Adjustable via Potentiometer P: Programmable 1-10V/PWM/Res. dimming, Timer dimming H:Class I HK:Class II

CB / CE / / SAA / / EAC

MXL-H/HK 60-250W, Programmable 3-in-1 Dimming, Class I/II

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
60W	DL-60H/HK-58A-MXL	60	100-277	25-58	40-58	0.75-1.50	90.0%	0.97	6/10KV	106*60*32
	DL-60H/HK-58P-MXL	60	100-277	25-58	40-58	0.15-1.50	90.0%	0.97	6/10KV	106*60*32
	DL-60H/HK-86A-MXL	60	100-277	40-86	57-86	0.50-1.05	90.0%	0.97	6/10KV	106*60*32
	DL-60H/HK-86P-MXL	60	100-277	40-86	57-86	0.11-1.05	90.0%	0.97	6/10KV	106*60*32
80W	DL-80H/HK-58A-MXL	80	100-277	25-58	40-58	1.00-2.00	90.5%	0.97	6/10KV	122*60*32
	DL-80H/HK-58P-MXL	80	100-277	25-58	40-58	0.20-2.00	90.5%	0.97	6/10KV	122*60*32
	DL-80H/HK-115A-MXL	80	100-277	57-115	76-115	0.50-1.05	91.0%	0.97	6/10KV	122*60*32
	DL-80H/HK-115P-MXL	80	100-277	57-115	76-115	0.11-1.05	91.0%	0.97	6/10KV	122*60*32
100W	DL-100H/HK-58A-MXL	100	100-277	25-58	40-58	1.25-2.50	91.0%	0.97	6/10KV	122*60*32
	DL-100H/HK-58P-MXL	100	100-277	25-58	40-58	0.25-2.50	91.0%	0.97	6/10KV	122*60*32
	DL-100H/HK-143A-MXL	100	100-277	71-143	95-143	0.50-1.05	91.5%	0.97	6/10KV	122*60*32
	DL-100H/HK-143P-MXL	100	100-277	71-143	95-143	0.11-1.05	91.5%	0.97	6/10KV	122*60*32
150W	DL-150H/HK-58A-MXL	150	100-277	25-58	40-58	1.88-3.75	91.5%	0.97	6/10KV	152*60*32
	DL-150H/HK-58P-MXL	150	100-277	25-58	40-58	0.38-3.75	91.5%	0.97	6/10KV	152*60*32
	DL-150H/HK-214A-MXL	150	100-277	95-214	143-214	0.50-1.05	92.5%	0.97	6/10KV	152*60*32
	DL-150H/HK-214P-MXL	150	100-277	95-214	143-214	0.11-1.05	92.5%	0.97	6/10KV	152*60*32
200W	DL-200H/HK-58A-MXL	200	100-277	25-58	40-58	2.50-5.00	92.5%	0.97	6/10KV	162*60*32
	DL-200H/HK-58P-MXL	200	100-277	25-58	40-58	0.50-5.00	92.5%	0.97	6/10KV	162*60*32
	DL-200H/HK-286A-MXL	200	100-277	143-286	190-286	0.50-1.05	94.0%	0.97	6/10KV	162*60*32
	DL-200H/HK-286P-MXL	200	100-277	143-286	190-286	0.11-1.05	94.0%	0.97	6/10KV	162*60*32
240W	DL-240H/HK-58A-MXL	240	100-277	25-58	40-58	3.00-6.00	93.0%	0.97	6/10KV	172*60*37
	DL-240H/HK-58P-MXL	240	100-277	25-58	40-58	0.60-6.00	93.0%	0.97	6/10KV	172*60*37
250W	DL-250H/HK-357A-MXL	250	100-277	171-357	228-357	0.50-1.05	94.5%	0.97	6/10KV	172*60*37
	DL-250H/HK-357P-MXL	250	100-277	171-357	228-357	0.11-1.05	94.5%	0.97	6/10KV	172*60*37

A: Current Adjustable via Potentiometer P: Programmable 1-10V/PWM/Res. dimming, Timer dimming H:Class I HK:Class II

The detailed parameter please refer to our specification

MUG Programmable IP67 Waterproof LED Driver Series



Application Area | Road Lighting, Tunnel Lighting, Stadium Lighting, Flood Lighting, Landscape Lighting

Product Features

MUG 100-320W, 480Vac, Programmable 3-in-1 Dimming

- Compatible with Class I luminaires
- Ultra-high voltage input
- Constant current output LED driver
- Input voltage: 277-480Vac
- Efficiency: Up to 96%
- Output power: 100-320W
- Output specifications: 25-56Vdc; 0.5-1.05A
- Surge protection: DM 6KV, CM10KV
- Protection rating: IP67
- Dimming: Programmable 0/1-10V/PMW/Res dimming, Timer dimming
- Protection: OTP, OCP,SCP
- End-of-life warning, CLO
- Five-year warranty

P: Programmable 0/1-10V/PMW/Res. dimming, Timer dimming

/ EAC / CLASS P / FC

MUG 100-320W, 480Vac, Programmable 3-in-1 Dimming

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
100W	DL-100U-V56P-MUG	100	277-480	25-56	36-56	0.80-2.80	90.0%	0.95	6/10KV	200*68*37
	DL-100U-V143P-MUG	100	277-480	71-143	95-143	0.50-1.05	90.0%	0.95	6/10KV	200*68*37
150W	DL-150U-V56P-MUG	150	277-480	25-56	36-56	1.70-2.40	91.0%	0.95	6/10KV	200*68*37
	DL-150U-V214P-MUG	150	277-480	95-214	143-214	0.50-1.05	92.0%	0.95	6/10KV	200*68*37
240W	DL-240U-V56P-MUG	240	277-480	25-56	36-56	2.60-6.70	92.0%	0.95	6/10KV	200*68*37
	DL-240U-V343P-MUG	240	277-480	171-343	228-343	0.50-1.05	92.0%	0.95	6/10KV	200*68*37
320W	DL-320U-V56P-MUG	320	277-480	25-56	36-56	4.20-7.65	93.50%	0.95	6/10KV	244*83*40
	DL-320U-V428P-MUG	320	277-480	228-428	304-428	0.50-1.05	94.0%	0.95	6/10KV	244*83*40

P: Programmable 0/1-10V/PMW/Res. dimming, Timer dimming

The detailed parameter please refer to our specification

MAS-C Programmable IP67 Dual Color Temperature Waterproof LED Driver Series



Application Area | Road Lighting, Tunnel Lighting

Product Features

MAS-C 30-150W, Dual Output, Programmable Dimming and CCT

- Compatible with Class I luminaires
- Input voltage: 100-277Vac (200-277Vac full load)
- Output specifications: 20-38Vdc/32-58Vdc
- Surge protection: DM 4/6KV, CM 6/15KV
- Output power: 30-150W
- Efficiency : Up to 90%
- Protection rating: IP67
- Dimming: Programmable 0/1-10V/PMW dimming
- Dual output, dimming and CCT
- Constant current output LED driver
- Protection: OTP, OVP,SCP
- Five-year warranty

C: 0-10V Dual Color Temperature Version

CE / CCC

MAS-C 30-150W, Dual Output, Programmable Dimming and Color Adjustment

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30H-V38C-MAS	30	200-277	20-38	32-38	0.30-1.00	87.0%	0.95	4/6KV	114*51.5*30
	DL-30H-V58C-MAS	30	200-277	32-58	42-58	0.20-0.75	87.0%	0.95	4/6KV	114*51.5*30
50W	DL-50H-V38C-MAS	50	200-277	20-38	32-38	0.70-1.60	87.0%	0.95	4/6KV	124*51.5*30
	DL-50H-V58C-MAS	50	200-277	32-58	42-58	0.50-1.20	87.0%	0.95	4/6KV	124*51.5*30
75W	DL-75H-V38C-MAS	75	200-277	20-38	32-38	1.30-2.50	89.0%	0.95	4/6KV	147*56.5*30
	DL-75H-V58C-MAS	75	200-277	32-58	42-58	0.90-1.80	89.0%	0.95	4/6KV	147*56.5*30
100W	DL-100H-V38C-MAS	100	200-277	20-38	32-38	1.90-3.50	90.0%	0.95	6/15KV	161*56.5*34
	DL-100H-V58C-MAS	100	200-277	32-58	42-58	1.30-2.50	90.0%	0.95	6/15KV	161*56.5*34
150W	DL-150H-V38C-MAS	150	200-277	20-38	32-38	2.80-4.70	90.0%	0.95	6/15KV	185*66.5*34
	DL-150H-V58C-MAS	150	200-277	32-58	42-58	1.80-3.60	90.0%	0.95	6/15KV	185*66.5*34

C: 0-10V Dual Color Temperature Version

The detailed parameter please refer to our specification

MAL Programmable IP67 Waterproof LED Driver Series

new



Application Area | Road Lighting, Tunnel Lighting, Flood Lighting

Product Features

- Compatible with Class I luminaires (Class II Optional)
- Constant current output LED driver
- Input voltage: 100-277Vac
- Efficiency: Up to 92%
- Dimming: Programmable 0/1-10V/PMW/Res. dimming
- Surge protection: DM 4/6KV, CM 6/10KV (Class II products only support DM surge protection)
- Protection rating: IP67
- Protection: OTP,OVP,SCP
- Five-year warranty

MAL-Z/ZK 20-60W, Programmable 3-in-1 Dimming,Class I/II

- Input voltage: 100-277Vac
- Output power: 20-60W
- Protection rating: IP67
- Output specifications: 32-58Vdc
- Dimming: Programmable 0/1-10V/PMW/Res. dimming
- Compatible with Class I luminaires (Class II Optional)
- Surge protection: DM 4KV, CM 6KV (Class II products only support DM surge protection)

A: Current Adjustable via Potentiometer
P: Programmable 0/1-10V/PMW/Res. dimming
Z:Class I ZK:Class II

CB / CE / SAA /

MAL-H/HK 40-200W, Programmable 3-in-1 Dimming, Class I/II

- Compatible with Class I luminaires (Class II Optional)
- Input voltage: 100-277Vac (200-277Vac full load)
- Output specifications: 32-58Vdc; 0.5-1.05A
- Dimming: Programmable 0/1-10V/PMW/Res. dimming
- Output power: 40-200W
- Protection rating: IP67
- Surge protection: DM 4/6KV, CM 6/10KV (Class II products only support DM surge protection)

A: Current Adjustable via Potentiometer
P: Programmable 0/1-10V/PMW/Res. dimming
H:Class I HK:Class II

CB / CE / SAA /



MAL-Z/ZK 20-60W, Programmable 3-in-1 Dimming, Class I/II

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
20W	DL-20Z/ZK-B58A-MAL	20	100-277	32-58	42-58	0.17-0.48	88.0%	0.95	4/6KV	105*43.5*28
	DL-20Z/ZK-B58P-MAL	20	100-277	32-58	42-58	0.17-0.48	88.0%	0.95	4/6KV	105*43.5*28
30W	DL-30Z/ZK-B58A-MAL	30	100-277	32-58	42-58	0.36-0.72	89.0%	0.95	4/6KV	105*43.5*28
	DL-30Z/ZK-B58P-MAL	30	100-277	32-58	42-58	0.36-0.72	89.0%	0.95	4/6KV	105*43.5*28
40W	DL-40Z/ZK-B58A-MAL	40	100-277	32-58	42-58	0.50-0.95	89.5%	0.95	4/6KV	105*43.5*28
	DL-40Z/ZK-B58P-MAL	40	100-277	32-58	42-58	0.50-0.95	89.5%	0.95	4/6KV	105*43.5*28
50W	DL-50Z/ZK-B58A-MAL	50	100-277	32-58	42-58	0.50-1.20	90.0%	0.95	4/6KV	130*43.5*28
	DL-50Z/ZK-B58P-MAL	50	100-277	32-58	42-58	0.50-1.20	90.0%	0.95	4/6KV	130*43.5*28
60W	DL-60Z/ZK-B58A-MAL	60	100-277	32-58	42-58	0.86-1.43	90.0%	0.97	4/6KV	130*43.5*28
	DL-60Z/ZK-B58P-MAL	60	100-277	32-58	42-58	0.86-1.43	90.0%	0.97	4/6KV	130*43.5*28

Class II products only support DM surge protection

A: Current Adjustable via Potentiometer P: Programmable 0/1-10V/PMW/Res. dimming Z:Class I ZK:Class II

MAL-H/HK 40-200W, Programmable 3-in-1 Dimming, Class I/II

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
40W	DL-40H/HK-B58A-MAL	40	100-277	32-58	42-58	0.50-0.95	89.5%	0.95	4/6KV	105*43.5*28
	DL-40H/HK-B58P-MAL	40	100-277	32-58	42-58	0.50-0.95	89.5%	0.95	4/6KV	105*43.5*28
50W	DL-50H/HK-B58A-MAL	50	100-277	32-58	42-58	0.50-1.20	90.0%	0.95	4/6KV	105*43.5*28
	DL-50H/HK-B58P-MAL	50	100-277	32-58	42-58	0.50-1.20	90.0%	0.95	4/6KV	105*43.5*28
60W	DL-60H/HK-B58A-MAL	60	100-277	32-58	42-58	0.86-1.43	90.0%	0.97	4/6KV	130*43.5*28
	DL-60H/HK-B58P-MAL	60	100-277	32-58	42-58	0.86-1.43	90.0%	0.97	4/6KV	130*43.5*28
75W	DL-75H/HK-B58A-MAL	75	100-277	32-58	42-58	0.86-1.43	90.0%	0.97	4/6KV	130*43.5*28
	DL-75H/HK-B58P-MAL	75	100-277	32-58	42-58	0.86-1.43	90.0%	0.97	4/6KV	130*43.5*28
	DL-75H/HK-B108A-MAL	75	100-277	54-108	72-108	0.50-1.05	91.0%	0.97	4/6KV	130*43.5*28
	DL-75H/HK-B108P-MAL	75	100-277	54-108	72-108	0.50-1.05	91.0%	0.97	4/6KV	130*43.5*28
100W	DL-100H/HK-B58A-MAL	100	100-277	32-58	42-58	1.30-2.38	91.0%	0.97	6/10KV	145*50*32
	DL-100H/HK-B58P-MAL	100	100-277	32-58	42-58	1.30-2.38	91.0%	0.97	6/10KV	145*50*32
	DL-100H/HK-B143A-MAL	100	100-277	71-143	95-143	0.50-1.05	91.5%	0.97	6/10KV	145*50*32
	DL-100H/HK-B143P-MAL	100	100-277	71-143	95-143	0.50-1.05	91.5%	0.97	6/10KV	145*50*32
150W	DL-150H/HK-B58A-MAL	150	100-277	32-58	42-58	1.80-3.60	91.5%	0.97	6/10KV	178*60*32
	DL-150H/HK-B58P-MAL	150	100-277	32-58	42-58	1.80-3.60	91.5%	0.97	6/10KV	178*60*32
	DL-150H/HK-B214A-MAL	150	100-277	95-214	143-214	0.50-1.05	92.0%	0.97	6/10KV	178*60*32
	DL-150H/HK-B214P-MAL	150	100-277	95-214	143-214	0.50-1.05	92.0%	0.97	6/10KV	178*60*32
200W	DL-200H/HK-B58A-MAL	200	100-277	32-58	42-58	2.40-4.80	91.5%	0.97	6/10KV	188*60*32
	DL-200H/HK-B58P-MAL	200	100-277	32-58	42-58	2.40-4.80	91.5%	0.97	6/10KV	188*60*32
	DL-200H/HK-B286A-MAL	200	100-277	143-286	190-286	0.50-1.05	92.0%	0.97	6/10KV	188*60*32
	DL-200H/HK-B286P-MAL	200	100-277	143-286	190-286	0.50-1.05	92.0%	0.97	6/10KV	188*60*32

Class II products only support DM surge protection

A: Current Adjustable via Potentiometer P: Programmable 0/1-10V/PMW/Res. dimming H:Class I HK:Class II

MAC/MCC Built-in IP65 Constant Current Waterproof LED Driver Series



Application Area | lawn lamps, garden lamps, wall lamps, floodlights

Product Features

- Compatible with Class II luminaires
- Constant current output type LED driver
- Input voltage: 100-240/277Vac
- Efficiency: Up to 90%
- Surge protection: DM 4KV
- Protection rating: IP65
- Protection: SCP,OVP
- Five-year warranty

MCC 3-20W, Fixed Current, Plastic Case,

- Input voltage: 100-240Vac
- Output power: 3-20W
- Protection rating: IP65
- Compatible with Class II luminaires
- Output specification: Fixed Current output
- Surge protection: DM 2KV

/ CE / CB

MAC 30-50W, Fixed Current, Plastic Case

- Input voltage: 100-277Vac
- Output power: 30-50W
- Protection rating: IP65
- Compatible with Class II luminaires
- Output specification: Fixed Current output
- Surge protection: DM 6KV

/ CE / CB /

MAC-A 30-70W, Fixed Current, Plastic Case

- Input voltage: 100-277Vac
- Output power: 30-70W
- Protection rating: IP65
- Compatible with Class II luminaires
- Output specification: Fixed Current output
- Surge protection: DM 4KV

/ CE / CB /

The detailed parameter please refer to our specification

MCC 3-20W, Fixed Current, Plastic Case

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
3W	DL-3W-C150-MCC	1.65	100-240	5-11	0.15	75.0%	0.9	2KV	52*30*22
	DL-3W-C300-MCC	3.3	100-240	5-11	0.30	78.0%	0.9	2KV	52*30*22
	DL-3W-C700-MCC	4.2	100-240	2-6	0.70	76.0%	0.9	2KV	52*30*22
7W	DL-7W-C150-MCC	3.6	100-240	11-24	0.15	81.0%	0.9	2KV	52*30*22
	DL-7W-C300-MCC	7.2	100-240	11-24	0.30	83.0%	0.9	2KV	52*30*22
	DL-7W-C700-MCC	7	100-240	5-10	0.70	79.0%	0.9	2KV	52*30*22
12W	DL-12W-C210-MCC	8.82	100-240	21-42	0.21	84.0%	0.9	2KV	70*36*23
	DL-12W-C350-MCC	14.7	100-240	21-42	0.35	84.0%	0.95	2KV	70*36*23
	DL-12W-C700-MCC	14	100-240	11-20	0.70	84.0%	0.95	2KV	70*36*23

*The current can be adjusted according to customer requirements, with a current difference of 30mA between each model.

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
20W	DL-20W-C300-MCC	20.4	100-240	36-68	0.30	86.0%	0.95	2KV	70*36*23
	DL-20W-C400-MCC	16.8	100-240	21-42	0.40	86.0%	0.9	2KV	70*36*23
	DL-20W-C600-MCC	20.4	100-240	21-34	0.60	85.0%	0.95	2KV	70*36*23

*The current can be adjusted according to customer requirements, with a current difference of 50mA between each model.

MAC 30-50W, Fixed Current, Plastic Case

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30Z-C600-MAC	30	100-277	25-50	0.60	88.0%	0.95	6KV	108*35*26
	DL-30Z-C750-MAC	30	100-277	20-42	0.75	88.0%	0.95	6KV	108*35*26
	DL-30Z-C900-MAC	30	100-277	20-36	0.90	88.0%	0.95	6KV	108*35*26
50W	DL-50Z-C900-MAC	50	100-277	25-56	0.90	89.0%	0.95	6KV	108*35*26
	DL-50Z-C1050-MAC	50	100-277	25-50	1.05	89.0%	0.95	6KV	108*35*26
	DL-50Z-C1200-MAC	50	100-277	20-38	1.20	88.0%	0.95	6KV	108*35*26
	DL-50Z-C1350-MAC	50	100-277	20-38	1.35	88.0%	0.95	6KV	108*35*26
	DL-50Z-C1500-MAC	50	100-277	20-36	1.50	88.0%	0.95	6KV	108*35*26

MAC-A 30-70W, Fixed Current, Plastic Case

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30Z-AC600-MAC	15-30	100-277	25-50	0.60	87.5%	0.95	4KV	76*64*32
	DL-30Z-AC750-MAC	15-31	100-277	20-42	0.75	87.5%	0.95	4KV	76*64*32
	DL-30Z-AC900-MAC	18-32	100-277	20-36	0.90	87.5%	0.95	4KV	76*64*32
40W	DL-40Z-AC900-MAC	22-40	100-277	25-45	0.90	88.0%	0.95	4KV	76*64*32
	DL-40Z-AC1050-MAC	21-40	100-277	20-38	1.05	88.0%	0.95	4KV	76*64*32
	DL-40Z-AC1200-MAC	24-40	100-277	20-34	1.20	88.0%	0.95	4KV	76*64*32
50W	DL-50Z-AC900-MAC	22-50	100-277	25-56	0.90	88.5%	0.95	4KV	76*64*32
	DL-50Z-AC1050-MAC	26-52	100-277	25-50	1.05	88.5%	0.95	4KV	76*64*32
	DL-50Z-AC1200-MAC	24-50	100-277	20-42	1.20	88.5%	0.95	4KV	76*64*32
	DL-50Z-AC1350-MAC	27-51	100-277	20-38	1.35	88.5%	0.95	4KV	76*64*32
	DL-50Z-AC1500-MAC	30-51	100-277	20-34	1.50	88.5%	0.95	4KV	76*64*32
60W	DL-60Z-AC1350-MAC	34-60	100-277	25-45	1.35	89.0%	0.95	4KV	83*70*32
	DL-60Z-AC1500-MAC	30-60	100-277	20-40	1.50	89.0%	0.95	4KV	83*70*32
	DL-60Z-AC1800-MAC	36-60	100-277	20-34	1.80	89.0%	0.95	4KV	83*70*32
70W	DL-70Z-AC1500-MAC	37-70	100-277	25-47	1.50	90.0%	0.95	4KV	83*70*32
	DL-70Z-AC1800-MAC	36-72	100-277	20-40	1.80	90.0%	0.95	4KV	83*70*32
	DL-70Z-AC2100-MAC	42-71	100-277	20-34	2.10	90.0%	0.95	4KV	83*70*32

The detailed parameter please refer to our specification

SBS Built-in IP65 Waterproof LED Driver Series new



Application Area | Explosion-proof Lights

Product Features

- Compatible with Class I luminaires
- Constant current output LED driver
- Input voltage: 100-277Vac
- Efficiency: Up to 90%
- Surge protection: DM 4KV, CM 6KV
- Protection rating: IP65
- Protection: OTP, OVP, SCP
- Five-year warranty

SBS 40-80W, Round Aluminum Housing, Current Adjustable via Potentiometer

- Compatible with Class I luminaires
- Input voltage: 100-277Vac
- Output specifications: 20-38Vdc / 32-58Vdc
- Output power: 40-80W
- Surge protection: DM 4KV, CM 6KV
- Protection rating: IP65
- Current Adjustable via Potentiometer

A: Current Adjustable via Potentiometer

SBS-C 30-50W, Round Aluminum Housing, Fixed Current

- Compatible with Class I luminaires
- Input voltage: 100-277Vac
- Output specification: Fixed Current output
- Output power: 30-50W
- Surge protection: DM 4KV, CM 6KV
- Protection rating: IP65

C: Fixed output current

SBS-B 40-80W, Round Aluminum Housing, Flicker-Free, Current Adjustable via Potentiometer

- Compatible with Class I luminaires
- Input voltage: 100-277Vac
- Output specification: 26-58Vdc
- Output power: 40-80W
- Surge protection: DM 4KV, CM 6KV
- Protection rating: IP65
- Current Adjustable via Potentiometer, flicker-free

A: Current Adjustable via Potentiometer

SBS 40-80W, Round Aluminum Housing, Current Adjustable via Potentiometer

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (D*H) mm
40W	DL-40Z-V38A-SBS	40	100-277	20-38	32-38	0.50-1.30	89.0%	0.95	4/6KV	75*33
	DL-40Z-V58A-SBS	40	100-277	32-58	42-58	0.35-0.95	89.0%	0.95	4/6KV	75*33
60W	DL-60Z-V38A-SBS	60	100-277	20-38	32-38	1.05-1.90	89.5%	0.95	4/6KV	90*33
	DL-60Z-V58A-SBS	60	100-277	32-58	42-58	0.70-1.45	89.5%	0.95	4/6KV	90*33
80W	DL-80Z-V38A-SBS	80	100-277	20-38	32-38	1.50-2.50	90.0%	0.95	4/6KV	90*33
	DL-80Z-V58A-SBS	80	100-277	32-58	42-58	1.05-1.90	90.0%	0.95	4/6KV	90*33
100W	DL-100Z-V38A-SBS	100	100-277	20-38	32-38	2.10-3.15	90.0%	0.95	4/6KV	110*38
	DL-100Z-V58A-SBS	100	100-277	32-58	42-58	1.40-2.40	90.0%	0.95	4/6KV	110*38

A: Current Adjustable via Potentiometer

SBS-C 30-50W, Round Aluminum Housing, Fixed Current

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (D*H) mm
30W	DL-30Z-C500-SBS	30	100-240	26-58	/	0.50	89.0%	0.95	4/6KV	75*33
40W	DL-40Z-C500-SBS	40	100-240	25-58	/	0.50	89.0%	0.96	4/6KV	75*33
	DL-40Z-C700-SBS	40	100-240	25-58	/	0.70	89.0%	0.96	4/6KV	75*33
50W	DL-50Z-C1200-SBS	50	100-240	26-40	/	1.20	88.5%	0.96	4/6KV	75*33
	DL-50Z-C1400-SBS	50	100-240	26-40	/	1.40	88.5%	0.96	4/6KV	75*33

C: Fixed output current

SBS-B 40-80W, Round Aluminum Housing, Flicker-Free, Current Adjustable via Potentiometer

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (D*H) mm
40W	DL-40Z-B58A-SBS	40	100-277	26-58	38-58	0.50-1.05	88.0%	0.95	4/6KV	75*33
60W	DL-60Z-B58A-SBS	60	100-277	26-58	38-58	0.85-1.50	89.0%	0.95	4/6KV	90*33
80W	DL-80Z-B58A-SBS	80	100-277	26-58	38-58	1.25-2.00	90.0%	0.95	4/6KV	90*33

A: Current Adjustable via Potentiometer



PXL Non-Isolated Programmable IP67/IP20 LED Driver Series new



Application Area | Road lighting, industrial lighting, flood lighting

Product Features

- Compatible with Class I luminaires
- Constant current output LED driver
- Input voltage: 100-277Vac
- Efficiency: Up to 97%
- Auxiliary Output: 12V/250mA
- Surge protection: DM 4/6KV, CM 6KV
- Protection rating:IP67/IP20
- Dimming: Programmable 0/1-10V / PWM / Res. dimming, DIP switch power, photosenor supported
- Protection: OTP, OVP, SCP
- Five-year warranty

PXL 40-320W, IP67, Non-Isolated Programmable 3-in-1 Dimming, 12V Auxiliary Power

- Compatible with Class I luminaires
- Surge protection: DM 4/6KV, CM 6KV
- Output specification: 65-150/180-300Vdc
- Output power: 40-320W
- Dimming: Programmable 0/1-10V / PWM / Res. dimming
- Auxiliary Output: 12V/250mA
- Input voltage: 100-277Vac
- Protection rating: IP67

P: Programmable 0/1-10V / PWM / Res. dimming
X: Programmable 0/1-10V / PWM / Res. dimming+ Auxiliary Power

CB / CE / KC / EAC / c UL us LISTED / CLASS P

PXL-B 40-320W, IP20, Non-Isolated Programmable 3-in-1 Dimming, 12V Auxiliary Power, DIP Switch, Photosenor supported

- Compatible with Class I luminaires
- Input voltage: 100-277Vac
- Output specification: 65-150/180-300Vdc
- Output power: 40-320W
- Dimming: Programmable 0/1-10V / PWM / Res. dimming, DIP switch power, Photosenor supported
- Auxiliary Output: 12V/250mA
- Surge protection: DM 4/6KV, CM 6KV
- Protection rating: IP20

P: Programmable 0/1-10V / PWM / Res. dimming
X: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power
U: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power + Photosenor supported

CB / CE / KC / EAC / SAA / FC / c UL us LISTED / CLASS P

PXL-M 40-100W, IP20, Non-Isolated Programmable 3-in-1 Dimming, 12V Auxiliary Power, DIP Switch, Photosenor supported, Slim

- Compatible with Class I luminaires
- Output power: 40-100W
- Auxiliary Output: 12V/250mA
- Dimming: Programmable 0/1-10V / PWM / Res. dimming, DIP switch power, Photosenor supported
- Surge protection: DM 4/6KV, CM 6KV
- Output specification: 65-150/180-300Vdc
- Input voltage: 100-277Vac
- Protection rating: IP20

X: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power
U: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power + Photosenor supported

FC / c UL us LISTED / CLASS P

PXL 40-320W, IP67, Non-Isolated Programmable 3-in-1 Dimming, 12V Auxiliary Power

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
40W	DL-40Z-150P-PXL	40	100-277	65-150	100-150	0.10-0.40	93.0%	0.97	4/6KV	100*50*32
	DL-40Z-300P-PXL	40	100-277	180-300	200-300	0.10-0.20	93.0%	0.97	4/6KV	100*50*32
60W	DL-60Z-150P-PXL	60	100-277	65-150	100-150	0.10-0.60	94.0%	0.97	4/6KV	100*50*32
	DL-60Z-300P-PXL	60	100-277	180-300	200-300	0.10-0.30	94.0%	0.97	4/6KV	100*50*32
80W	DL-80Z-150P-PXL	80	100-277	65-150	100-150	0.10-0.80	96.0%	0.97	6/6KV	110*50*32
	DL-80Z-300P-PXL	80	100-277	180-300	200-300	0.10-0.40	96.0%	0.97	6/6KV	110*50*32
100W	DL-100Z-150P-PXL	100	100-277	65-150	100-150	0.10-1.00	96.5%	0.97	6/6KV	110*50*32
	DL-100Z-300P-PXL	100	100-277	180-300	200-300	0.10-0.50	96.5%	0.97	6/6KV	110*50*32
120W	DL-120Z-150P/X-PXL	120	100-277	65-150	100-150	0.12-1.20	97.0%	0.97	6/6KV	136*50*32
	DL-120Z-300P/X-PXL	120	100-277	180-300	200-300	0.10-0.60	97.0%	0.97	6/6KV	136*50*32
150W	DL-150Z-150P/X-PXL	150	100-277	65-150	100-150	0.15-1.50	97.0%	0.97	6/6KV	136*50*32
	DL-150Z-300P/X-PXL	150	100-277	180-300	200-300	0.10-0.75	97.0%	0.97	6/6KV	136*50*32
200W	DL-200Z-300P/X-PXL	200	100-277	180-300	200-300	0.10-1.00	97.0%	0.97	6/6KV	151*50*32
240W	DL-240Z-300P/X-PXL	240	100-277	180-300	200-300	0.12-1.20	97.0%	0.97	6/6KV	151*50*32
320W	DL-320Z-300P/X-PXL	320	100-277	180-300	230-300	0.16-1.40	97.0%	0.97	6/6KV	185*50*32

P: Programmable 0/1-10V / PWM / Res dimming X: Programmable 0/1-10V / PWM / Res dimming+ Auxiliary Power

PXL-B 40-320W, IP20, Non-Isolated Programmable 3-in-1 Dimming, 12V Auxiliary Power, DIP Switch, Photosenor supported

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
40W	DL-40Z-B150P-PXL	40	100-277	65-150	100-150	0.10-0.40	93.0%	0.97	4/6KV	100*47*32
	DL-40Z-B300P-PXL	40	100-277	180-300	200-300	0.10-0.20	93.0%	0.97	4/6KV	100*47*32
60W	DL-60Z-B150P-PXL	60	100-277	65-150	100-150	0.10-0.60	94.0%	0.97	4/6KV	100*47*32
	DL-60Z-B300P-PXL	60	100-277	180-300	200-300	0.10-0.30	94.0%	0.97	4/6KV	100*47*32
80W	DL-80Z-B150P-PXL	80	100-277	65-150	100-150	0.10-0.80	96.0%	0.97	6/6KV	110*47*32
	DL-80Z-B300P-PXL	80	100-277	180-300	200-300	0.10-0.40	96.0%	0.97	6/6KV	110*47*32
100W	DL-100Z-B150P-PXL	100	100-277	65-150	100-150	0.10-1.00	96.5%	0.97	6/6KV	110*47*32
	DL-100Z-B300P-PXL	100	100-277	180-300	200-300	0.10-0.50	96.5%	0.97	6/6KV	110*47*32
120W	DL-120Z-B150P/X/U-PXL	120	100-277	65-150	100-150	0.12-1.20	97.0%	0.97	6/6KV	143*47*32
	DL-120Z-B300P/X/U-PXL	120	100-277	180-300	200-300	0.10-0.60	97.0%	0.97	6/6KV	143*47*32
150W	DL-150Z-B150P/X/U-PXL	150	100-277	65-150	100-150	0.15-1.50	97.0%	0.97	6/6KV	143*47*32
	DL-150Z-B300P/X/U-PXL	150	100-277	180-300	200-300	0.10-0.75	97.0%	0.97	6/6KV	143*47*32
200W	DL-200Z-B300P/X/U-PXL	200	100-277	180-300	200-300	0.10-1.00	97.0%	0.97	6/6KV	158*47*32
240W	DL-240Z-B300P/X/U-PXL	240	100-277	180-300	200-300	0.12-1.20	97.0%	0.97	6/6KV	158*47*32
320W	DL-320Z-B300P/X/U-PXL	320	100-277	180-300	230-300	0.16-1.40	97.0%	0.97	6/6KV	192*47*32

P: Programmable 0/1-10V / PWM / Res. dimming X: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power
U: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power + Photosenor supported

PXL-M 40-100W, IP20, Non-Isolated Programmable 3-in-1 Dimming, 12V Auxiliary Power, DIP Switch, Photosenor supported, Slim

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
40W	DL-40Z-M150X-PXL	40	100-277	65-150	100-150	0.10-0.40	93.0%	0.97	6/6KV	134*40*28
	DL-40Z-M150U-PXL	40	100-277	65-150	100-150	0.10-0.40	93.0%	0.97	6/6KV	134*40*28
60W	DL-60Z-M150X-PXL	60	100-277	65-150	100-150	0.10-0.60	94.0%	0.97	6/6KV	134*40*28
	DL-60Z-M150U-PXL	60	100-277	65-150	100-150	0.10-0.60	94.0%	0.97	6/6KV	134*40*28
80W	DL-80Z-M300X-PXL	80	100-277	180-300	200-300	0.10-0.40	96.0%	0.97	6/6KV	152*40*28
	DL-80Z-M300U-PXL	80	100-277	180-300	200-300	0.10-0.40	96.0%	0.97	6/6KV	152*40*28
100W	DL-100Z-M300X-PXL	100	100-277	180-300	200-300	0.10-0.50	96.5%	0.97	6/6KV	152*40*28
	DL-100Z-M300U-PXL	100	100-277	180-300	200-300	0.10-0.50	96.5%	0.97	6/6KV	152*40*28

X: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power
U: Programmable 0/1-10V / PWM / Res. dimming + DIP switch power + Auxiliary Power + Photosenor supported



DONE POWER
SMART LIGHTING PRODUCT LINE





MXG-T 4G Cat.1 Intelligent Control Integrated LED Driver



Application Area | Road lighting, Industrial lighting, Stadium lighting

Product Features

- Family series products
- Surge protection level up to 10KV
- Protection: SCP , UVP , OTP , OLP
- Constant power driver, constant current output control mode
- Metal housing structure, protection rating: IP67
- End-of-life warning, CLO
- Ten-year warranty

MXG-T 50-320W CAT.1 Intelligent Control Integrated LED Driver

- CAT.1 Integrated control module
- Input voltage: 100-277Vac
- Output power: 50-320W
- Protection rating: IP67
- Surge protection: DM 6KV, CM 10KV
- Secure and reliable data transmission, no wiring required
- Multi-operator flexibility / Wide coverage with stable, high-speed transmission & low latency
- Applicable scenario: Discrete single-point transmission
- Networking Method: Operator base station networking

T: CAT 1 communication

/ SRRC

MXG-T 50-320W CAT.1 Intelligent Control Integrated LED Driver

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
50W	DL-50Z-56T-MXG	50	100-277	25-56	36-56	0.70-1.40	89.0%	0.97	6/10KV	165*68*37
60W	DL-60Z-56T-MXG	60	100-277	25-56	30-56	0.70-2.00	89.0%	0.97	6/10KV	165*68*37
	DL-60Z-86T-MXG	60	100-277	36-72	58-86	0.50-1.05	89.0%	0.97	6/10KV	165*68*37
75W	DL-75Z-56T-MXG	75	100-277	25-56	36-56	0.85-2.10	89.0%	0.95	6/10KV	165*68*37
	DL-75Z-108T-MXG	75	100-277	54-108	72-108	0.50-1.05	89.0%	0.95	6/10KV	165*68*37
100W	DL-100Z-56T-MXG	100	100-277	25-56	36-56	1.30-2.80	90.0%	0.95	6/10KV	165*68*37
	DL-100Z-143T-MXG	100	100-277	71-143	95-143	0.50-1.05	90.0%	0.95	6/10KV	165*68*37
150W	DL-150Z-56T-MXG	150	100-277	25-56	36-56	1.70-4.20	93.0%	0.95	6/10KV	185*68*37
	DL-150Z-214T-MXG	150	100-277	95-214	143-214	0.50-1.05	93.0%	0.95	6/10KV	185*68*37
200W	DL-200Z-56T-MXG	200	100-277	25-56	36-56	2.60-5.60	93.0%	0.95	6/10KV	225*68*37
	DL-200Z-286T-MXG	200	100-277	143-286	190-286	0.50-1.05	93.0%	0.95	6/10KV	225*68*37
240W	DL-240Z-56T-MXG	240	100-277	25-56	36-56	3.50-6.70	94.0%	0.95	6/10KV	225*68*37
	DL-240Z-343T-MXG	240	100-277	171-343	228-343	0.50-1.05	94.0%	0.95	6/10KV	225*68*37
320W	DL-320Z-56T-MXG	320	100-277	25-56	42-56	4.20-7.65	94.0%	0.95	6/10KV	200*83*40
	DL-320Z-428T-MXG	320	100-277	228-428	304-428	0.70-1.05	94.0%	0.95	6/10KV	200*83*40

T: CAT 1 communication

The detailed parameter please refer to our specification

MXG-L LoRa Intelligent Control Integrated LED Driver



Application Area | Road lighting, Industrial lighting, Stadium lighting

Product Features

- Family series products
- Surge protection level up to 10KV
- Used with LoRa Gateway
- Constant power driver, constant current output control mode
- Metal housing structure, protection rating: IP67
- Protection: SCP , UVP , OTP , OLP
- End-of-life warning, CLO
- Five-year warranty

MXG-L 60-320W LORA Intelligent Control Integrated LED Driver

- LORA Integrated control module
- Input voltage: 100-277Vac
- Output power: 60-320W
- Protection rating: IP67
- Strong anti-interference capability / High-capacity network
- Low power consumption / High sensitivity / Low cost
- Surge protection: DM 6KV, CM 10KV
- Networking method: LoRa gateway-based
- Applicable scenario: Regional complex scenarios

L: LORA communication

MXG-L 60-320W LORA Intelligent Control Integrated LED Driver

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
60W	DL-60Z-56L-MXG	60	100-277	25-56	36-56	0.70-2.00	89.0%	0.97	6/10KV	150*68*32
	DL-60Z-86L-MXG	60	100-277	36-72	58-86	0.50-1.05	89.0%	0.97	6/10KV	150*68*32
75W	DL-75Z-56L-MXG	75	100-277	25-56	36-56	0.85-2.10	90.0%	0.95	6/10KV	165*68*37
	DL-75Z-108L-MXG	75	100-277	54-108	72-108	0.50-1.05	90.0%	0.95	6/10KV	165*68*37
100W	DL-100Z-56L-MXG	100	100-277	25-56	36-56	1.30-2.80	90.0%	0.95	6/10KV	165*68*37
	DL-100Z-143L-MXG	100	100-277	71-143	95-143	0.50-1.05	90.0%	0.95	6/10KV	165*68*37
150W	DL-150Z-56L-MXG	150	100-277	25-56	36-56	1.70-4.20	92.0%	0.95	6/10KV	185*68*37
	DL-150Z-214L-MXG	150	100-277	95-214	143-214	0.50-1.05	92.0%	0.95	6/10KV	185*68*37
200W	DL-200Z-56L-MXG	200	100-277	25-56	36-56	2.60-5.60	93.0%	0.95	6/10KV	225*68*37
	DL-200Z-286L-MXG	200	100-277	143-286	190-286	0.50-1.05	93.0%	0.95	6/10KV	225*68*37
240W	DL-240Z-56L-MXG	240	100-277	25-56	36-56	3.50-6.70	94.0%	0.95	6/10KV	225*68*37
	DL-240Z-343L-MXG	240	100-277	171-343	228-343	0.50-1.05	94.0%	0.95	6/10KV	225*68*37
320W	DL-320Z-56L-MXG	320	100-277	25-56	42-56	4.20-7.65	94.0%	0.95	6/10KV	200*83*40
	DL-320Z-428L-MXG	320	100-277	228-428	304-428	0.70-1.05	94.0%	0.95	6/10KV	200*83*40

L: LORA communication

The detailed parameter please refer to our specification

MXG-U Digital LED Driver Series new



Application Area | Road lighting, Industrial lighting, Stadium lighting, Flood lighting, Landscape lighting

Product Features

- Input: 100-277Vac
- Metal housing structure, protection rating: IP67
- Surge protection level up to 10KV
- Protection: SCP , UVP , OTP , OLP
- Constant power driver, constant current output control mode
- Efficiency: Up to 95%
- End-of-life warning, CLO
- UART communication protocol
- Ten-year warranty

MXG-U 50-240W,4V Auxiliary Power + Over-voltage protection

- Suitable for Class I luminaires
- Output voltage: 25-56Vdc
- Supports standard UART communication protocol, compliant with T/CAS-051 standard
- Integrated input-output parameter acquisition
- Input voltage: 100-277Vac
- Output power: 50-240W
- Protection rating: IP67
- Surge protection: DM 6KV, CM 10KV

MXG-U 50-240W,4V Auxiliary Power + Over-voltage protection

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
50W	DL-50Z-U56X-MXG	50	100-277	25-56	36-56	0.70-1.40	89.0%	0.97	6/10KV	165*68*37
75W	DL-75Z-U56X-MXG	75	100-277	25-56	36-56	0.85-2.10	90.0%	0.97	6/10KV	165*68*37
100W	DL-100Z-U56X-MXG	100	100-277	25-56	36-56	1.30-2.80	91.0%	0.97	6/10KV	165*68*37
	DL-100Z-U143X-MXG	100	100-277	70-143	95-143	0.70-1.05	92.0%	0.97	6/10KV	165*68*37
150W	DL-150Z-U56X-MXG	150	100-277	25-56	36-56	1.70-4.20	92.5%	0.97	6/10KV	185*68*37
	DL-150Z-U214X-MXG	150	100-277	95-214	143-214	0.70-1.05	94.5%	0.97	6/10KV	185*68*37
200W	DL-200Z-U56X-MXG	200	100-277	25-56	36-56	2.60-5.60	94.0%	0.97	6/10KV	185*68*37
	DL-200Z-U286X-MXG	200	100-277	142-286	198-286	0.70-1.05	95.0%	0.97	6/10KV	185*68*37
240W	DL-240Z-U56X-MXG	240	100-277	25-56	36-56	3.50-6.70	93.0%	0.97	6/10KV	225*68*37

The detailed parameter please refer to our specification

PXC-DV-Z PLC Intelligent Integrated Communication LED Driver



Application Area | Road lighting, Industrial lighting, Tunnel lighting

Product Features

- Compatible with Class I luminaires
- Input voltage 220-400Vdc
- Efficiency: Up to 96%
- Constant power driver, constant current output control mode
- Metal housing structure, protection rating: IP67
- Surge protection: DM 4KV, CM 6KV
- Integrated PLC intelligent control module
- Five-year warranty

PXC-DV-Z 100-240W, DC 200-400Vdc input / PLC intelligent integrated LED driver

- Compatible with Class I luminaires
- Input voltage: 220-400Vdc
- Output voltage: 100-160Vdc
- Output power: 100-240W
- Protection rating: IP67
- Surge protection: DM 4KV, CM 6KV
- Supports remote control of LED driver on/off, dimming, grouping, etc.
- Supports LED driver fault query, over-temperature, overload, over-voltage, under-voltage, etc.
- Supports LED driver status data monitoring, collects and reports LED driver online/offline status, input voltage, input current, input power, output power and other data

DV-Z: DC input + PLC power line carrier

PXC-DV-Z 100-240W, DC 200-400Vdc input / PLC intelligent integrated LED driver

Power	Model	Output Power (W)	Input Voltage (Vdc)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Surge Protection	Dimensions (L*W*H) mm
100W	DL-100DV-160Z-PXC	100	220-400	100-160	100-160	0.50-1.00	94.0%	4/6KV	143*49*32.5
150W	DL-150DV-160Z-PXC	150	220-400	100-160	100-160	0.75-1.50	94.0%	4/6KV	143*49*32.5
240W	DL-240DV-160Z-PXC	240	220-400	100-160	100-160	1.20-2.40	96.0%	4/6KV	164*53*32.5

DV-Z: DC input + PLC power line carrier

The detailed parameter please refer to our specification

MAS-R RS485 Intelligent Integrated Communication LED Driver



Application Area | Road lighting, Industrial lighting, Stadium lighting

Product Features

- Family series products
- High power density, compact housing design
- Protection: SCP , OVP , UVP , OTP , OLP
- Protection rating: IP67
- End-of-life warning, CLO
- Compatible with Class I luminaires
- Five-year warranty

MAS-R 30-240W, RS485 Intelligent Control Integrated LED Driver

- Integrated RS485 control module, Two-channel (dual-color) output optional
- Input voltage: 200-277Vac
- Output power: 30-240W
- Surge protection: DM 4/6KV, CM 6/15KV
- Application scenario: Mains-powered chain lighting scenarios
- Networking Method: Based on RS485 Gateway
- Wiring required / Long-distance transmission / High speed / Strong anti-interference capability

R: RS485 version CR: RS485+Dual-color version

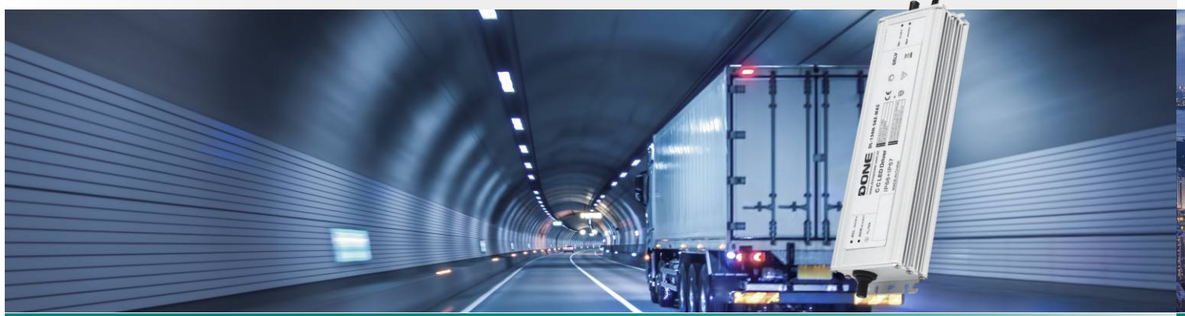
MAS-R 30-240W, RS485 Intelligent Control Integrated LED Driver

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30H-58R-MAS	30	200-277	32-58	42-58	0.20-0.75	88.0%	0.95	4/6KV	125*53*33
	DL-30H-58CR-MAS	30	200-277	32-58	42-58	0.20-0.75	88.0%	0.95	4/6KV	125*53*33
50W	DL-50H-58R-MAS	50	200-277	32-58	42-58	0.50-1.20	89.0%	0.95	4/6KV	125*53*33
	DL-50H-58CR-MAS	50	200-277	32-58	42-58	0.50-1.20	88.0%	0.95	4/6KV	125*53*33
75W	DL-75H-58R-MAS	75	200-277	32-58	42-58	0.90-1.80	90.0%	0.95	4/6KV	165*63*33
	DL-75H-58CR-MAS	75	200-277	32-58	42-58	0.90-1.80	90.0%	0.95	4/6KV	165*63*33
100W	DL-100H-58R-MAS	100	200-277	32-58	42-58	1.30-2.50	90.0%	0.95	6/15KV	165*63*33
	DL-100H-58CR-MAS	100	200-277	32-58	42-58	1.30-2.50	90.0%	0.95	6/15KV	165*63*33
150W	DL-150H-58R-MAS	150	200-277	32-58	42-58	1.80-3.60	90.0%	0.95	6/15KV	215*63*33
	DL-150H-58CR-MAS	150	200-277	32-58	42-58	1.80-3.60	90.0%	0.95	6/15KV	215*63*33
200W	DL-200H-58R-MAS	200	200-277	32-58	42-58	2.60-4.80	91.0%	0.95	6/15KV	260*63*33
	DL-200H-58CR-MAS	200	200-277	32-58	42-58	2.60-4.80	91.0%	0.95	6/15KV	260*63*33
240W	DL-240H-58R-MAS	240	200-277	32-58	42-58	3.50-5.70	91.0%	0.95	6/15KV	260*63*33
	DL-240H-58CR-MAS	240	200-277	32-58	42-58	3.50-5.70	91.0%	0.95	6/15KV	260*63*33

R: RS485 version CR: RS485+Dual-color version

The detailed parameter please refer to our specification

MAS-Z PLC Intelligent Integrated Communication LED Driver



Application Area | Road lighting, Industrial lighting, Stadium lighting

Product Features

- Family series products
- High power density, compact housing design
- Protection: SCP , OVP , UVP , OTP , OLP
- Protection rating: IP67
- End-of-life warning, CLO
- Compatible with Class I luminaires
- Five-year warranty

MAS-Z 30-240W, PLC Intelligent Control Integrated LED Driver

- Integrated PLC control module
- Input voltage: 200-277Vac
- Output power: 30-240W
- Surge protection: DM 4/6KV, CM 6/15KV
- Applicable scenario: Mains-powered chain lighting scenarios
- Networking Method: Based on Power Line Communication (PLC)

Complete communication protocol / No wiring required/ Strong anti-interference capability

Z: PLC power line carrier

MAS-Z 30-240W, PLC Intelligent Control Integrated LED Driver

Power	Model	Output Power (W)	Input Voltage (Vac)	Output Voltage (Vdc)	Full Power Output Voltage (Vdc)	Output Current (A)	Typ. Eff.	Typ. PF	Surge Protection	Dimensions (L*W*H) mm
30W	DL-30H-58Z-MAS	30	200-277	32-58	42-58	0.20-0.75	88.0%	0.95	4/6KV	125*53*33
50W	DL-50H-58Z-MAS	50	200-277	32-58	42-58	0.50-1.20	88.0%	0.95	4/6KV	125*53*33
75W	DL-75H-58Z-MAS	75	200-277	32-58	42-58	0.90-1.80	90.0%	0.95	4/6KV	165*63*33
100W	DL-100H-58Z-MAS	100	200-277	32-58	42-58	1.30-2.50	90.0%	0.95	6/15KV	165*63*33
150W	DL-150H-58Z-MAS	150	200-277	32-58	42-58	1.80-3.60	90.0%	0.95	6/15KV	215*63*33
200W	DL-200H-58Z-MAS	200	200-277	32-58	42-58	2.60-4.80	91.0%	0.95	6/15KV	260*68*33
240W	DL-240H-58Z-MAS	240	200-277	32-58	42-58	3.50-5.70	91.0%	0.95	6/15KV	260*68*33

Z: PLC power line carrier

The detailed parameter please refer to our specification

DTU Smart Control Integrated Power Accessory new



Application Area | Road lighting, Smart municipal, Industrial lighting

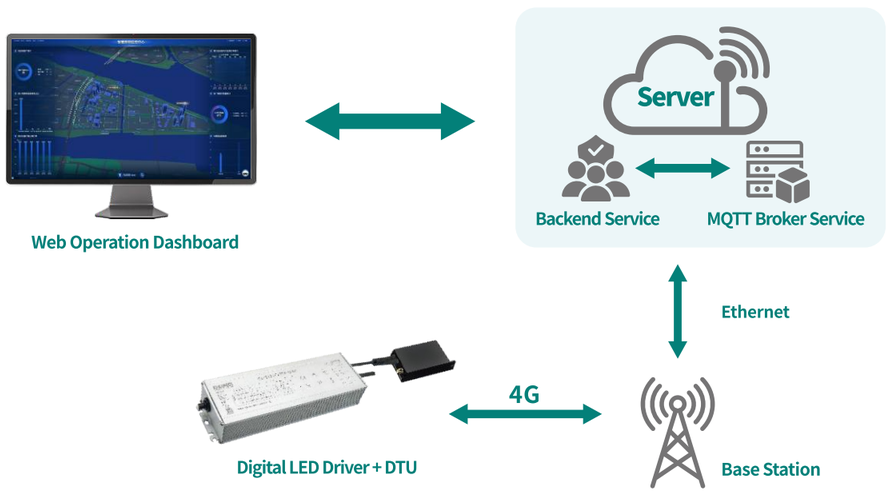
Product Features

- Working Mode: MQTT mode
- Power Supply: DC 4V
- Heartbeat packet/registration packet with proprietary protocol
- OTA Upgrade, Base Station Positioning, NTP Time Synchronization
- Supports scan-code configuration
- Supports multiple communication methods
- Supports power-off reporting
- Network Standard: Supports China Mobile, China Telecom
- Electrostatic Discharge Immunity / Surge Immunity / Electrical Fast Transient Burst Immunity
- Five-year warranty

DTU Smart Control Integrated Power Accessory

- Helps users quickly access their private MQTT server or public MQTT IoT cloud platform
- Data publishing and subscription support multi-topic addition and configuration
- Authentication Mode : No Certificate Verification, One-Way Certificate Authentication, and Two-Way Certificate Authentication
- Supports Universal MQTT Access and Alibaba Cloud Quick Access
- Supports SSL/TLS Encrypted Connection

MQTT Mode and Configuration Software Are as Follows:



The detailed parameter please refer to our specification

DONE CLOUD SMART LIGHTING CONTROL SYSTEM

Remote batch dimming reduces operation and maintenance cost

Supports the collection and display of dozens of data points, including voltage, current, power, energy consumption, lighting duration, temperature, dimming status and power factor.



Real-time monitoring of lamp status Efficient and accurate data collection

Provides fault warnings for electrical leakage, power failure, over-temperature, over-voltage, under-voltage, flashing lights, short circuits and abnormal light failure, whilst generating O&M work orders and ensuring closed-loop management.

SPD-A new

SURGE PROTECTOR DEVICE SERIES

PRODUCT FEATURES

Protection Level IP20

1. Input voltage: 100-277Vac
2. Surge protection: 12kV/6kA, 20kV/10kA
3. Voltage protection level (Up): L-N:＜1.5kV, L-PE:＜2kV
   L-N:＜1.8kV, L-PE:＜2kV
4. Applicable to both Class I and Class II luminaires (Optional)
5. Ingress protection rating: IP20

CE / CB / KC

Class I :



DL-AA12S-SPD



DL-AA20S-SPD

Class II :



DL-AA12KS-SPD



DL-AA20KS-SPD

SPD-B new

SURGE PROTECTOR DEVICE SERIES

PRODUCT FEATURES

Protection Level IP67

1. Input voltage: 100-277Vac
2. Surge protection: 10kV/5kA, 20kV/10kA
3. Voltage protection level (Up): L-N:＜1.5kV, L-PE:＜2kV
   L-N:＜1.8kV, L-PE:＜2kV
4. Applicable to both Class I and Class II luminaires (Optional)
5. Ingress protection rating: IP67

CE / CB / KC

Class I :



DL-B10S-SPD DL-B10P-SPD DL-B20S-SPD DL-B20P-SPD

Class II :



DL-B10KS-SPD DL-B10KP-SPD DL-B20KS-SPD DL-B20KP-SPD

HANDHELD NFC PROGRAMMER

1. Power via USB/Battery
2. Integrated NFC module
3. Used with DONE programmer software



Q & A

INPUT VOLTAGE RANGE

When the user sees that the labeled input voltage range on the power supply is 85-265VAC, the actual inputvoltage is 100-240VAc. When the safety certification is conducted, the so-called strict +10% test (IEC60950strict + 6%-10%) will be carried out, so there will be no problem in the use of the power supply drive withinthe voltage range defined in the specification. The voltage range indicated on the power supply is to meetsafety specifications and to ensure proper use of the power supply.

POWER FACTOR

Power Factor Correction for improve the led driver ratio of effective Power and apparent Power at the inputend, For products which without PFc, the power factor is only 0.4~0.6 at the input end, models which withactive PFC ,PF can be more than 0.95. The correlation is as follows:

Apparent power = input voltage x input current (VA)
Effective power = input voltage x input current x power factor (PF)

From the viewpoint of environmental, electric power company must produce more than the apparentpower, so that their generating sets can supply to market demands stable, and the actual use of power isthe effective power. If the power factor is 0.5, it means that the generator set should produce more than 2VApower, can supply lW power safety.and its energy efficiency is poor. But if the power factor was improvedto 0.95, the generating set of the electric power company need produces power more than 1.06VA, thedemand for supply lW power will be enough, and the energy efficiency is better.

SURGE CURRENT

The switching power supply at the instant of the input power transmission will be a brief (1 /2-1 powercycle, ex: 60Hz power supply 1 / 120-1 /60 seconds) of high current (about 20-60A according to the productdesign, please refer to the product acknowledgment) at the moment of power transmission of the inputpower supply. After the product is started, the normal current input will be restored, and it will appear atthe moment of power transmission at the input power supply every time. This is a normal phenomenonand wil not cause the damage of power supply , However. it is not recommended to turn on / off the powelsupply continuously. in addition, it should be noted that if more than one power supply device is used tostart up at the same time, it may cause the protection switch of system distribution to jump off. it is recom.mended to delay starting up among more than one power supply device, or to use the remote controlfunction ofthe power product to delay starting up the product sequence.

OUTPUT VOLTAGE ACCURACY

Output voltage accuracy refers to the diference between the actual output voltage and the rated outputvoltage. This error is the superposition value of line stability and load stability. Normally this parameter at+/-1% line stability is the percentage of the output voltage that deviates from the rated voltage when theinput voltage varies between the maximum and minimum allowable range. Load stability is thepercentage of the output voltage that deviates from the rated voltage when the output load currentvaries between the maximum and minimum allowable range.

Efficiency: The ratio of total output power to active input power, expressed as a percentage. That is, efficiency = output power/input power *100%.

Rated power: refers to the maximum output power of the power supply (voltage V times current A).

Electromagnetic compatibility (EMC) : the ability of a device or system to operate as required in its electromagnetic environment without producing intolerable EMI to any device in its environment.

EMC includes EMl(electromagnetic interference) and EMS(electromagnetic tolerance). The so-called EMlelectromagnetic interference refers to the harmful energy transmitted or radiated by the switching powelsupply. And EMS refers to the ability of the switching power supply to be unaffected by the surroundingelectromagnetic environment in the process of performing its due functions.

Ripple: as the dc stable power supply is generally formed by the ac power supply through rectifying andvoltage stabilizing links, it is inevitable that there are more or less ac components in the dc stable powerThe ac component superimposed on the dc stable power is called ripple.

Output ripple and noise: the amplitude of the output ac voltage from the switching power supply withina specified bandwidth, usually expressed as a millivolt level peak-to-peak or RMS value.

Total Harmonic Distortion is refers to the signal source input, the output signal (harmonic and itsfrequency doubling component) than the input signal of the additional harmonic component, usuallyexpressed as a percentage. Generally speaking, the total harmonic distortion of this frequency of 1000Hzis the smallest, so many products take the distortion of this frequency as its index, So the test for totalharmonic distortion is 1000Hz sound, and the smaller the better.

Overshoot and undershoot: Overshoot is when the first peak or valley value exceeds the set voltage -- thehighest voltage for the rising edge and the lowest voltage for the falling edge. Undershoot is the nextvalley or peak. Excessive overshoot can cause the protective diode to work, leading to premature failure.Excessive undershoot can cause false clock or data errors.

Working environment temperature switch power supply can be reasonable electrical indicators andstability of the working temperature range. Unless specified otherwise, do not assume that the switchingpower supply can output full power throughout the temperature range, nor that the switching powersupply can maintain the same electrical specifications throughout the operating temperature range.

Pulse Width Modulation (PwM) : a method of voltage regulation used in switching power supplies bysimply changing the period and duty cycle of the pulse train.