



*Your Reliable Power Partner*  
Standard LED Driver Manufacturer



# ■ Group Overview

Founded in 1982, MEAN WELL is one of the world's few manufacturers dedicated to standard power supply products. It is ranked the 4th in global power supply (DC output) makers according to a report by Micro Technology released in March, 2021.

MEAN WELL has been working as a "reliable partner" with customers, suppliers, contractors, and employees to build long lasting mutual trust relationships based on the spirit of "good intentions." The product lines include AC/DC power supplies, LED drivers, AC/DC battery chargers, DC/DC converters, DC/AC inverters. We have over 10,000 standard models widely used in medical, automation, communication, LED lighting, moving sign, and office automation fields.

**1982**

- Established MEAN WELL ENTERPRISES CO., LTD.

**1997**

- Set up POWERNEX ELECTRONICS CO., LTD.

**1993**

- Established China factory in Guangzhou city

**1999**

- Established "MEAN WELL USA INC." in Fremont, C A



**2002**

- Taiwan headquarter moved to HQ Building in Wugu Dist., New Taipei City



**2006**

- Established "MEAN WELL EUROPE B.V." in The Netherlands
- Established the second China factory in SuZhou city



**2018**

- Combined revenue exceeded one billion USD
- Established MEAN WELL INTERNATIONAL CO., LTD, Korea office
- Established MEAN WELL ASEAN Regional Office
- Set up Guangzhou Share Well Co., LTD.

**2016**

- Established Huadu factory in Guangzhou city



**2017**

- Established USA Eastern sales office

# MEAN WELL Virtual Expo



## 2022

- SDG Take-off year
- SDG Group(MEAN WELL/ PowerNex / SHARE WELL) aims to establish E SG companies.
- Established SUZHOU SHARE WELL AUTOMATION TECHNOLOGY CO., LTD.
- Established SUZHOU SHARE WELL SMD TECHNOLOGY CO., LTD.
- Established MEAN WELL MALAYSIA SDN.BHD.
- Established SUZHOU SHARE WELL MAGNE TIC TECHNOLOGY CO., LTD.
- Established SUZHOU CHENG WELL PRECISION TECHNOLOGY CO., LTD.
- Established PowerNex MANAGEMENT CONSULTING CO., LTD.
- Established PowerNex PRECISION TECHNOLOGY CO., LTD.
- Established SUZHOU SHARE WELL PRECISION TECHNOLOGY CO., LTD



MEAN WELL SUZHOU SMART PARK

## 2024

- Established jiaxing SHARE WELL Electronic Technology CO., LTD.
- Established suzhou SHARE WELL Intelligent Technology CO., LTD.

## 2025

- Establishment of Dongguan SHARE WELL SMD Technology Co., Ltd.
- Establishment of SUZHOU XIN WELL SMD Technology Co., Ltd.
- Investment and holding in Pinxin Group
- Establishment of MEAN WELL New Jersey Office, USA
- Establishment of PowerNex Manufacturing Co., Ltd.

## 2023

- Established SUZHOU SHARE WELL CERTIFICATION CO., LTD.
- Established MEAN WELL Turkey Diş Ticaret A.Ş.
- Established MEAN WELL Power Solutions, INC.
- Established SHARE WELL Green Energy Technology

## 2021

- SDG Debut year
- With "Reliable Partners and Sustainable Development" spirits developing the SDG Group
- Set up MEAN WELL SINGAPORE PTE . LTD.

## 2020

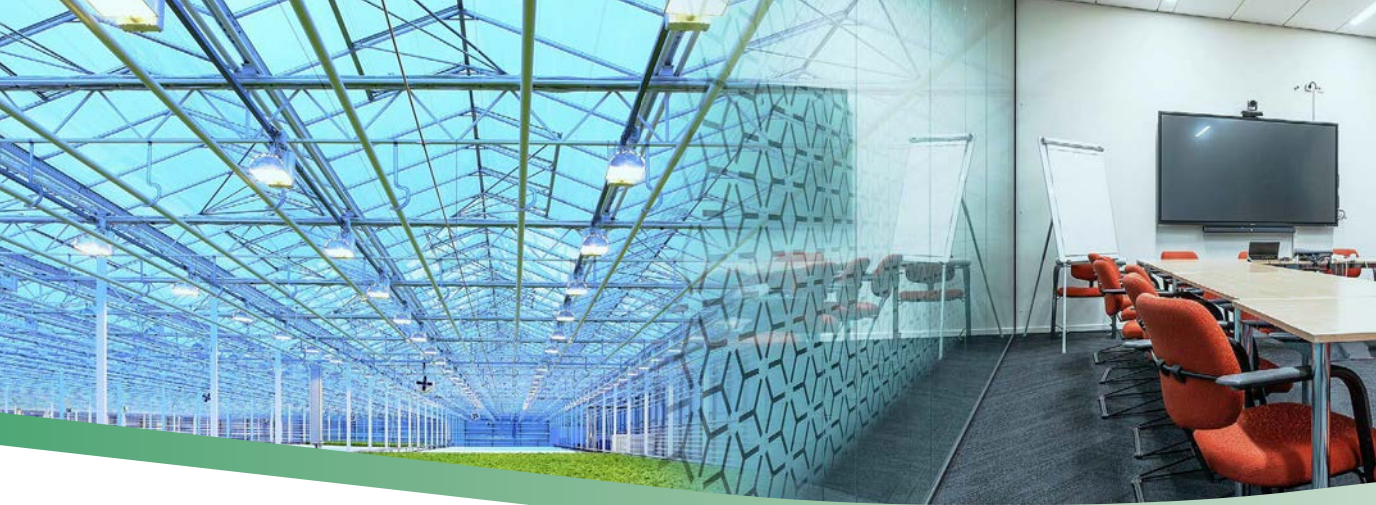
- Set up Suzhou SHAER WELL Technology CO., LTD.
- Established "MEAN WELL Welfare Foundation-Community
- Service Base" in the starting office

## 2019

- Established a new warehouse in Kansas City, Missouri, USA
- Established MEAN WELL India in Bengaluru



MEAN WELL INDIA



## ■ Competitiveness



### Product

Up to 10,000 models with adding 10% new products and phasing out 5% old products every year.



### Quality

High reliability and quality indicator – 10% lower.



### Cost

High cost-performance products, stable material price due to integration.



### Delivery

24-hour delivery for small amount order,  
14-day delivery for frequent purchase standard products.



### Service

Service in 24 hours is offered by MEAN WELL Group and our distributors.



### Reliable Relationship

75% of total revenue and purchases come from customers and suppliers with more than 15 years transaction.



## ■ Standard Power Supply Solution

### 2 Main Stream Product Lines



Enclosed Type



LED Driver

### 6 Niche Product Lines



DIN Rail Type



Battery Charger



DC/AC Inverter



On Board Type



Adaptor



DC/DC Converter

### 3 + N System solutions



KNX Product



DALI-2 Controller



CMU2 Control and Monitor Unit



19" Rack Power



Modular Power



System Power

### VFD Variable Frequency Drive



Enclosed Type



PCB Type

# INDEX



## Plastic Case

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The Premium Series



The Best Cost-Performance

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**FEREKS**  
LED lighting solutions  
CERTIFIED PARTNER



## Plastic Case

|    |               |    |                |    |                  |    |                    |
|----|---------------|----|----------------|----|------------------|----|--------------------|
| 02 | AP (8~35W)    | 04 | LPF (16~90W)   | 06 | PCD (16~60W)     | 09 | XLC-KN/MA (25~60W) |
| 03 | LP(18~150W)   | 05 | SPWM (75~240W) | 07 | OWA (60~200W)    | 10 | LCM (25~60W)       |
| 04 | NPF (40~200W) | 05 | PWM (40~200W)  | 07 | GSV (30~60W)     | 11 | SLD (50~150W)      |
|    |               | 06 | PLD (16~60W)   | 08 | XLN/XLC (25~60W) | 11 | LDC (35~80W)       |

## Application

|                                                                                               |                                                                                                      |                                                                                                             |                                                                                                      |                                                                                              |                                                                                               |                                                                                                   |                                                                                                       |                                                                                                               |                                                                                                                |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <br>Indoor | <br>LED Bar Light | <br>LED Sign Board Strip | <br>LED Softstrip | <br>MR 16 | <br>AR 111 | <br>Down Light | <br>Recessed Light | <br>Surface Mounted Light | <br>Surface Mounted Light |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

# 8~35W

# AP Series

## ■ Features

- Constant voltage mode for APV series
- Constant current mode for APC series
- Universal AC input : 90~264VAC
- Withstand 300VAC surge input for 5 secs. (APV-25/35)
- Isolation class II, no F.G.
- Class 2 power unit / Pass LPS  
(except for APV/APC-8, APC-25-350 and APC-35-350/500)
- Fully isolated plastic case with IP42 level
- Protections: Short Circuit / Overload (only for APV series) /  
Over Voltage(except for APC-8)
- No load power consumption <0.5W for APV/APC-8
- 2 years warranty



APV Spec



APC Spec

## ■ Models



| Model No.      | APV-8      | APV-12   | APV-16 | APV-25   | APV-35 |
|----------------|------------|----------|--------|----------|--------|
| Output (V)     | 5          | 5        | 5      | 5        | 5      |
|                | 12         | 12       | 12     | 12       | 12     |
|                | 24         | 15       | 15     | 15       | 15     |
|                |            | 24       | 24     | 24       | 24     |
|                |            |          |        | 36       | 36     |
| Dimension (mm) | 60x30x23.5 | 77x40x29 |        | 84x57x29 |        |

| Model No.      | APC-8      | APC-12   | APC-16 | APC-25     | APC-35 |
|----------------|------------|----------|--------|------------|--------|
| Output (mA)    | 250        | 350      | 350    | 350        | 350    |
|                | 350        | 700      | 700    | 500        | 500    |
|                | 500        |          |        | 700        | 700    |
|                | 700        |          |        | 1050       | 1050   |
| Dimension (mm) | 60x30x23.5 | 77x40x29 |        | 84x57x29.9 |        |

Note: These models are not intended for lighting application in the EU. (EU Recommendation: NPF/LPF/LCM/XLC Series)

# LP Series

18~150W

## ■ Features

- Constant voltage mode for LPH / LPV / LPVL series  
Constant current mode for LPHC / LPC series
- Fully encapsulated with IP67 level
- Isolation class II, no F.G.
- Class 2 power unit / Pass LPS  
(except for LPV/LPV/LPC-100~150 and LPV-60-5)
- Protections: Short Circuit / Over Voltage / Overload  
(only for LPV series) / Over Temperature  
(only for 18W&150W)
- 2 years warranty



LPH Spec



LPV(L) Spec



LPHC Spec



LPC Spec

## ■ Models



| Model No.      | LPH-18    | LPV-20    | LPV-35    | LPV-60    | LPV-100   | LPV-150     | LPVL-150 |
|----------------|-----------|-----------|-----------|-----------|-----------|-------------|----------|
| Input (V)      | 180~264   | 90~264    | 90~264    | 90~264    | 90~264    | 180~305     | 90~132   |
| Output (V)     | 12        | 5         | 5         | 5         | 5         | 12          | 12       |
|                | 24        | 12        | 12        | 12        | 12        | 15          | 24       |
|                | 36        | 15        | 15        | 15        | 15        | 24          |          |
|                |           | 24        | 24        | 24        | 24        | 36          |          |
|                |           |           | 36        | 36        | 36        | 48          |          |
|                |           |           |           | 48        | 48        |             |          |
| Dimension (mm) | 140x30x22 | 118x35x26 | 148x40x30 | 162x42x32 | 190x52x37 | 191x63x37.5 |          |

| Model No.      | LPHC-18   | LPC-20    | LPC-35    | LPC-60        | LPC-100   | LPC-150     |
|----------------|-----------|-----------|-----------|---------------|-----------|-------------|
| Input (V)      | 180~264   | 90~264    | 90~264    | 90~264        | 90~264    | 180~305     |
| Output (mA)    | 350       | 350       | 700       | 1050          | 350       | 350         |
|                | 700       | 700       | 1050      | 1400          | 500       | 500         |
|                |           |           | 1400      | 1750          | 700       | 700         |
|                |           |           |           |               | 1050      | 1050        |
|                |           |           |           |               | 1400      | 1400        |
|                |           |           |           |               | 1750      | 1750        |
|                |           |           |           |               | 2100      | 2100        |
|                |           |           |           |               |           | 2450        |
|                |           |           |           |               |           | 2800        |
|                |           |           |           |               |           | 3150        |
| Dimension (mm) | 140x30x22 | 118x35x26 | 148x40x30 | 162.5x42.5x32 | 190x52x37 | 191x63x37.5 |

Note: These models are not intended for lighting application in the EU. (EU Recommendation: NPF/LPF/XLN/XLG Series)

# 40~200W & 16~90W

# NPF/LPF Series

## ■ NPF Features

- Constant voltage+constant current modes
- V-Type: Constant voltage mode only  
D-Type: Constant current mode only,
- Built-in 3 in 1 dimming function  
(0~10VDC, PWM signal or resistance)
- Wide AC input: 90~305VAC
- No load power consumption <0.15W  
(<0.5W for D-Type)
- Fully isolated plastic case with IP67 level
- Isolation class II, no F.G.
- Class 2 power unit
- Protections: Short Circuit / Over Current /  
Over Voltage / Over Temp.
- 5 years warranty



NPF Spec

## ■ LPF Features

- Constant voltage+constant current modes
- D-Type: Constant current mode only,
- Built-in 3 in 1 dimming function  
(1~10VDC, PWM signal or resistance)
- Wide AC input: 90~305VAC
- Fully isolated plastic case with IP67 level  
(optional for LPF-16/16D)
- Isolation class II/2, no F.G.
- Protections: Short Circuit / Over Current /  
Over Voltage / Over Temp.
- 5 years warranty



LPF Spec

## ■ Models



| Model No.      | NPF-40(D) | NPF-60(D) | NPF-90(D)   | NPF-120(D)  | NPF-200(V)  |
|----------------|-----------|-----------|-------------|-------------|-------------|
| Output (V)     | 12        | 12        | 12          | 12□         | 12          |
|                | 15        | 15        | 15          | 15□         | 24          |
|                | 20        | 20        | 20          | 20□         | 36          |
|                | 24        | 24        | 24          | 24□         | 42          |
|                | 30        | 30        | 30          | 30□         | 48          |
|                | 36        | 36        | 36          | 36□         | 54          |
|                | 42        | 42        | 42          | 42□         |             |
|                | 48        | 48        | 48          | 48□         |             |
|                | 54        | 54        | 54          | 54□         |             |
| Dimension (mm) | 150x53x35 |           | 171x63x37.5 | 191x63x37.5 | 195x68x39.5 |

□= Blank, BE; Blank: without auxiliary output, BE: D-Type with auxiliary function; V-Type: Suitable for poultry lighting or LED strip



| Model No.      | LPF-16(D) | LPF-25(D) | LPF-40(D)   | LPF-60(D) | LPF-90(D) |
|----------------|-----------|-----------|-------------|-----------|-----------|
| Output (V)     | 12        | 12        | 12          | 12        | 15        |
|                | 15        | 15        | 15          | 15        | 20        |
|                | 20        | 20        | 20          | 20        | 24        |
|                | 24        | 24        | 24          | 24        | 30        |
|                | 30        | 30        | 30          | 30        | 36        |
|                | 36        | 36        | 36          | 36        | 42        |
|                | 42        | 42        | 42          | 42        | 48        |
|                | 48        | 48        | 48          | 48        | 54        |
|                | 54        | 54        | 54          | 54        |           |
| Dimension (mm) | 148x40x32 |           | 162.5x43x32 |           | 161x61x36 |

# SPWM/PWM Series 40~200W

## SPWM Features **NEW**

- DALI-2 DT6(Dimming) or DT8 (Tunable white/RGBW) control available
- Constant voltage PWM style output with 1 or 4 channels
- Standby power consumption <0.5W
- Function options: 3 in 1 dimming / DALI-2 + PUSH Dimming
- Slim and Linear housing Design, terminal block wiring
- Built-in active PFC function
- Class II power unit, no F.G.
- Protections: Short circuit / Overload / Over voltage / Over Temp.
- Minimum dimming level 0.1%
- Cooling by free air convection
- 5 years warranty

## PWM Features

- Constant voltage PWM style output mode
- Wide AC input: 90~305VAC
- Multiple dimming functions available: 3 in 1 / DALI / DALI-2 / KNX
- Built-in active PFC function
- High efficiency up to 94%
- No load power consumption <0.5W
- Fully isolated plastic case with IP67 level
- Isolation class II, no F.G.
- Protections: Short Circuit / Overload / Over Voltage / Over Temp.
- 5 years warranty



PWM-40



PWM-60



PWM-90



PWM-120



PWM-200



## Models **NEW**



| Model No.      | SPWM-75-x□ | SPWM-150-x□ | SPWM-240-x□ |
|----------------|------------|-------------|-------------|
| Output (V)     | 12         | 12          | 24          |
|                | 24         | 24          | 48          |
| Dimension (mm) | 290x38x28  | 340x38x28   | 380x38x28   |

□ = Blank, DA2, DA2Q

Blank: with 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

DA2: DALI-2 with DT6 control (1 channel output)

DA2Q: DALI-2 with DT8 control (4 channels output)



| Model No.      | PWM-40    | PWM-60 | PWM-90      | PWM-120     | PWM-200     |
|----------------|-----------|--------|-------------|-------------|-------------|
| Output (V)     | 12        | 12○    | 12□         | 12○         | 12○         |
|                | 24        | 24○    | 24□         | 24○         | 24○         |
|                | 36        | 36     | 36          | 36          | 36○         |
|                | 48        | 48     | 48□         | 48          | 48○         |
| Dimension (mm) | 150x53x35 |        | 171x63x37.5 | 191x63x37.5 | 195x68x39.5 |

□ = Blank, DA2      ○ = Blank, DA2, KN

Blank: with 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

DA2 = DALI-2 control technology

KN = KNX control technology

16~60W

# PLD/PCD Series

## ■ Features

- Constant current mode
- AC phase-cut dimming, work with leading edge and trailing edge TRIAC dimmers (only for PCD series)
- Built-in active PFC function
- Fully isolated plastic case with IP42 level
- Isolation class II, no F.G.
- Class 2 power unit / Pass LPS (only for 16W/25W)
- Protections: Short Circuit / Over Temp.
- 3 years warranty



PLD Spec



PCD Spec

## ■ Models



| Model No.      | PLD-25 (Note1) | PLD-40      | PLD-60 |
|----------------|----------------|-------------|--------|
| Output (mA)    | 350            | 350B        | 500B   |
|                | 700            | 500B        | 700B   |
|                | 1050           | 700B        | 1050B  |
|                | 1400           | 1050B       | 1400B  |
|                |                | 1400B       | 1750B  |
|                |                | 1750B       | 2000B  |
|                |                |             | 2400B  |
| Dimension (mm) | 84x57x29.5     | 128x60x31.5 |        |

| Model No.      | PCD-16     | PCD-25 | PCD-40      | PCD-60 |
|----------------|------------|--------|-------------|--------|
| Output (mA)    | 350□       | 350□   | 350B        | 500B   |
|                | 700□       | 700□   | 500B        | 700B   |
|                | 1050□      | 1050□  | 700B        | 1050B  |
|                | 1400□      | 1400□  | 1050B       | 1400B  |
|                |            |        | 1400B       | 1750B  |
|                |            |        | 1750B       | 2000B  |
|                |            |        |             | 2400B  |
| Dimension (mm) | 84x57x29.5 |        | 128x60x31.5 |        |

□= A or B      A-Type: 90~135VAC, B-Type: 180~295VAC

Note1: PLD-25 AC input: 90~295VAC

# OWA/GSV Series

60~200W / 30~60W

## OWA Features

- Constant voltage + constant current modes
- Universal AC input: 90~264VAC
- Built-in active PFC function (except for OWA-60)
- Fully encapsulated with IP67 level
- Isolation class II, no F.G.
- Comply with EU ErP and CoC Version 5
- Energy efficiency Level VI
- No load power consumption <0.15W
- Protections: Short Circuit / Overload / Over Voltage / Over Temp.
- 5 years warranty



OWA Spec

## GSV Features

- Constant voltage output
- AC 180~264V input
- Built-in active PFC function
- Meet BS EN61347 regulation
- Isolation class II, no F.G.
- Class 2 power unit
- No load power consumption <0.5W
- Protections: Short Circuit / Overload / Over Voltage
- 3 years warranty



DC plug

Various DC plugs & accessories available, scan the QR code for details.



GSV Spec

## Models



| Model No.      | OWA-60(E/U) | OWA-90(E/U) | OWA-120(E/U) | OWA-200(E/U) |
|----------------|-------------|-------------|--------------|--------------|
| Output (V)     | 12          | 12          | 12           | 12           |
|                | 15          | 15          | 15           | 20           |
|                | 20          | 20○         | 20           | 24           |
|                | 24          | 24○         | 24           | 36           |
|                | 30          | 30○         | 30           | 42           |
|                | 36          | 36○         | 36           | 48           |
|                | 42          | 42○         | 42           | 54           |
|                | 48          | 48○         | 48           |              |
|                | 54          | 54○         | 54           |              |
| Dimension (mm) | 130x53x35   | 171x63x37.5 | 191x63x37.5  | 195x68x39.5  |

E: European 2P, U: American 2P

○=Blank/P1M

Blank: Power DIN 4P with lock type for 12~54V

P1M: 2.5φx5.5φx11mm/C+, tuning fork type for 20~54V



| Model No.      | GSV30        | GSV60        |
|----------------|--------------|--------------|
| Output (V)     | □12-P1J      | □12-P1J      |
|                | □24-P1J      | □24-P1J      |
|                | □48-P1J      | □48-P1J      |
| Dimension (mm) | 75.5x32x47.5 | 75.5x32x47.5 |

□=E/I E: European 2 pin I: Interchangeable type available by request. (AC plug order separately)

25~60W

# XLN/XLC Series

## ■ Features

- Constant power design with wide range adjustable current (H type)
- Constant voltage output models available (12V/24V/48V)
- Output current adjusted by NFC sensing
- Full voltage input 100~305VAC (with PFC function)
- Plastic case with double insulation and Class II design
- Meet UL8750 class 2 / class P power unit
- Compliant with IEEE 1789 and ErP flicker-free standards
- Standby power consumption <0.5W
- Minimum dimming brightness 0.1%
- Fully potted design complies with IP67 waterproof and dustproof (XLN series)
- Compliant with emergency lighting (EL) functions
- Dimming function: 3 in 1, DALI-2, KNX, Matter
- Output and dimming circuit comply with isolation design
- Optional independent or built-in LED power supply (XLC series)
- 5 years warranty and >50,000 hrs lifetime



XLC-25~60W



XLN-25~60W



XLC-25~60W-S



XLN系列



XLC系列

## ■ Models



| Model No.      | XLN-25-◇-□            | XLN-40-◇-□           | XLN-60-◇-□                      |
|----------------|-----------------------|----------------------|---------------------------------|
| Output(V/A)    | 12V/2.1A<br>24V/1.05A | 12V/3.4A<br>24V/1.7A | 12V/5A<br>24V/2.5A<br>48V/1.25A |
|                | H: 9~54V<br>0.3~1.05A | H: 9~54V<br>0.6~1.4A | H: 9~54V<br>0.9~1.7A            |
| Dimension (mm) | 114x44x32             |                      | 141.5x49x32                     |

◇= 12/24/48V (XLN-60 only) Constant voltage output or H Type

□= Blank, B, DA2; Blank: without dimming B: with 3 in 1 dimming DA2: with DALI-2 dimming

| Model No.      | XLC-25-◇-□○△          | XLC-40-◇-□○△         | XLC-60-◇-□○△                    |
|----------------|-----------------------|----------------------|---------------------------------|
| Output(V/A)    | 12V/2.1A<br>24V/1.05A | 12V/3.4A<br>24V/1.7A | 12V/5A<br>24V/2.5A<br>48V/1.25A |
|                | H: 9~54V<br>0.3~1.05A | H: 9~54V<br>0.6~1.4A | H: 9~54V<br>0.9~1.7A            |
| Dimension (mm) | 107x40x32 (147x40x32) |                      | 136x45x32 (176x45x32)           |

◇= 12/24/48V (XLC-60 only) Constant voltage output or H Type

□ = Blank, B, DA2 Blank: Without Dimming B: With 3 in 1 dimming DA2: With DALI-2 dimming

○ = Blank, S Blank: Without strain-relief S: With strain-relief

△ = Blank, N Blank: With DIP switch N: With NFC settings (Optional)

Note: 25/40W constant voltage types without dimming

# XLC-KN/MA Series 25~60W NEW

## ■ XLC-KN Features

- Constant power mode output with multiple stage selectable by ETS database
- Flicker free, complying with CE ErP directive
- KNX/EIB protocol, support KNX data secure
- Meet emergency lighting (EL) application
- Minimum dimming level 0.5%
- Built-in constant illuminance output function (ETS provides three presets L70/L80/L90 and customization)
- Built-in independent KNX push dimming interface
- 5 years warranty



XLC-KN

## ■ XLC-MA Features

- Matter over thread, Matter 1.3 specification
- Constant power mode output with multiple stage selectable by DIP switch (H-type)
- Constant voltage mode output(12/24/48V)
- Plastic housing with class II and PFC design
- Flicker free, complying with CE ErP directive
- Meet emergency lighting (EL) application
- Minimum dimming level 0.1%(12/24/48V) / 0.5% (H-type)
- Built-in antenna design for easy installation
- 5 years warranty



XLC-MA

## ■ Models



| Model No.      | XLC-25-H-KN□          | XLC-40-H-KN□      | XLC-60-H-KN□          |
|----------------|-----------------------|-------------------|-----------------------|
| Output(V/A)    | 9~54V<br>0.3~1.05A    | 9~54V<br>0.6~1.4A | 9~54V<br>0.9~1.7A     |
| Dimension (mm) | 107x40x32 (147x40x32) |                   | 136x45x32 (176x45x32) |

□ = Blank, S Blank: without strain-relief S: with strain-relief



| 机型             | XLC-25-H-MA□          | XLC-40-H-MA□      | XLC-60-◇-MA□                    |
|----------------|-----------------------|-------------------|---------------------------------|
| Output(V/A)    | 9~54V<br>0.3~1.05A    | 9~54V<br>0.6~1.4A | 9~54V<br>0.9~1.7A               |
|                |                       |                   | 12V/5A<br>24V/2.5A<br>48V/1.25A |
| Dimension (mm) | 107x40x32 (147x40x32) |                   | 136x45x32 (176x45x32)           |

◇ = 12/24/48V Constant voltage output or H Type

□ = Blank, S Blank: without strain-relief S: with strain-relief

# 25~60W

# LCM Series

## Features

- Constant current mode
- Multiple-stage output current level selectable by DIP switch
- Multiple dimming functions available:  
3 in 1 dimming / DALI / DALI-2 / KNX
- Isolation class II, no F.G.
- Power supplies synchronization function up to 10 units
- 12V/50mA auxiliary output for LCM-40/60
- DALI device type (DT6) and device type 8 (DT8) available
- Protections: Short Circuit / Over Voltage  
(only for LCM-40/60) / Over Temp.
- 3 years warranty ( LCM-25/40/60)
- 5 years warranty ( LCM-40TW)



LCM-25



LCM-40



LCM-60



LCM-40TW

## Models



| Model No.      | LCM-25○   | LCM-40○       | LCM-60○ |
|----------------|-----------|---------------|---------|
| Input (V)      | 180~277   | 180~295       | 180~295 |
| Output (mA)    | 350       | 350           | 500     |
|                | 500       | 500           | 600     |
|                | 600       | 600           | 700     |
|                | 700       | 700           | 900     |
|                | 900       | 900           | 1050    |
|                | 1050      | 1050          | 1400    |
| Dimension (mm) | 105x68x23 | 123.5x81.5x23 |         |

○= Blank, DA2, KN

Blank: with 3 in 1 dimming function(0~10Vdc, 10V PWM signal and resistance )

DA2: DALI/DALI-2 control    KN: KNX control

| Model No.      | LCM-40TW (With Tunable White) |
|----------------|-------------------------------|
| Input (V)      | 180~277                       |
| Output (mA)    | 500                           |
|                | 600                           |
|                | 700                           |
|                | 800                           |
|                | 900                           |
|                | 1050                          |
| Dimension (mm) | 123.5x81.5x23                 |

TW: DALI-2 control with tunable white function

# SLD/LDC Series 50~150W & 35~80W

## SLD Features

- Constant voltage + constant current mode output
- Universal AC input: 110~305VAC
- Built-in active PFC function
- Plastic housing with Class II design
- Class 2 power unit (Except for SLD-80-12)
- Slim and linear housing design
- Meet with BS EN61347/EN60335 regulations
- No load power consumption<0.5W
- Protections: Short Circuit / Over Current / Over Voltage / Over Temp.
- 3 years warranty (SLD-50/80)
- 5 years warranty (SLD-150)



SLD Spec

## LDC Features

- Constant power mode
- Full power at 70~100% current
- Linear metal housing
- SELV and Isolated design
- Class 2 power unit
- Built-in active PFC function
- Flicker-free design
- No load power consumption<0.5W
- Multiple types for choice: 3 in 1, DALI
- Protections: Short Circuit / Over Voltage / Over Temp.
- 5 years warranty



LDC Spec

## Models



| Model No.      | SLD-50       | SLD-80       | SLD-150           |
|----------------|--------------|--------------|-------------------|
| Output (V/mA)  | 12V          | 12V          | 12V               |
|                | 24V          | 24V          | 24V               |
|                | 56V/0.9~1.4A | 56V/1.4~2.1A | 56V(48V)/2.6~4.1A |
| Dimension (mm) | 280x30x16.8  | 320x30x16.8  | 330x35x22         |



| Model No.      | LDC-35□   | LDC-55□   | LDC-80□   |
|----------------|-----------|-----------|-----------|
| Output (V)     | 27~56     | 27~56     | 27~56     |
| Output (mA)    | 300~1000  | 500~1600  | 700~2100  |
| Dimension (mm) | 280x30x21 | 320x30x21 | 360x30x21 |

□= Blank, B, DA, DA2 (LDC-55 only)

Blank: Non dimming

B: 3 in 1 dimming function (0~10Vdc, PWM signal and resistance)

DA: DALI + push dimming

DA2: DALI-2 + push dimming



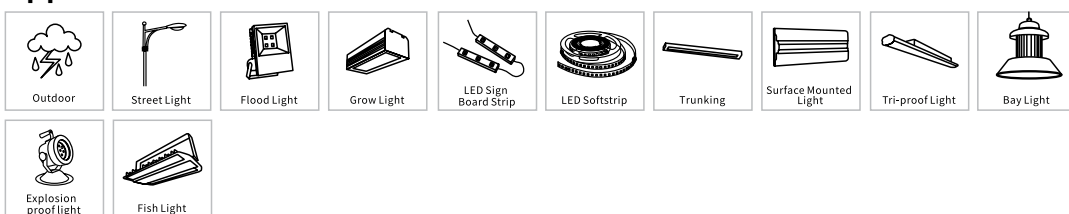
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## Metal Case

|    |                   |    |                 |    |                 |    |                |
|----|-------------------|----|-----------------|----|-----------------|----|----------------|
| 13 | XLG (20~320W)     | 16 | HLG (40~600W)   | 19 | HVGC (65~1000W) | 21 | HBG (60~240W)  |
| 14 | XLG-DA2 (50~320W) | 17 | HLG-C (60~480W) | 20 | ERP (200~350W)  | 21 | HBGC (300W)    |
| 15 | ELG (75~300W)     | 18 | HVG (65~480W)   | 20 | ERPF(400W)      | 21 | XBG (100~240W) |
| 15 | ELG-C (75~300W)   |    |                 |    |                 |    |                |

### Application



# XLG Series

20~320W

## Features

- Constant power mode output (XLG-25~320)
- Constant current mode (XLG-20 only)
- Full power at 70~100% current
- Universal AC input: 100~305VAC
- Metal case with IP67
- Built-in active PFC function
- Class 2 power unit (XLG-20~100)
- Surge protection with 6KV/4KV (10KV/6KV available)
- India (EESL) version with input over voltage protection; can survive input voltage stress of 440Vac for 48 hours
- Multiple models for choice, see P.33 for more details
- Protections: Short Circuit / Over Current / Over Voltage / Over Temp.
- 5 years warranty



XLG Spec

## Models



| Model No.<br>Output | 12○                   | 24○                    | L○                      | M○                   | H○                     | V○                 | Dimension (mm) |
|---------------------|-----------------------|------------------------|-------------------------|----------------------|------------------------|--------------------|----------------|
| XLG-20              |                       |                        | 32.4~54V,<br>0.35A      | 25.2~42V,<br>0.5A    | 18~30V,<br>0.7A        |                    | 95x63x30       |
| XLG-25□             |                       |                        |                         |                      | 22~54V,<br>0.25~1.05A  |                    | 105x63x30      |
| XLG-50□             |                       |                        |                         |                      | 22~54V,<br>0.53~2.1A   |                    | 105x63x30      |
| XLG-75□             | 8.4~12V,<br>5A        | 16.8~24V,<br>3.1A      | 53~107V,<br>0.35~1.05A  |                      | 27~56V,<br>0.65~2.1A   |                    | 140x63x32      |
| XLG-100□            | 8.4~12V,<br>4~8A      | 16.8~24V,<br>2~4A      | 71~142V,<br>0.35~1.05A  |                      | 27~56V,<br>0.875~2.78A |                    | 140x63x32      |
| XLG-150□            | 8.4~12V,<br>6.5~12.5A | 16.8~24V,<br>3.2~6.25A | 120~214V,<br>0.35~1.05A | 60~107V,<br>0.7~2.1A | 27~56V,<br>1.4~4.17A   |                    | 180x63x35.5    |
| XLG-200□            | 8.4~12V,<br>8~16A     | 16.8~24V,<br>4.15~8.3A | 142~285V,<br>0.35~1.05A |                      | 27~56V,<br>1.75~5.55A  |                    | 199x63x35.5    |
| XLG-240□            |                       |                        | 178~342V,<br>0.35~1.05A | 90~171V,<br>0.7~2.1A | 27~56V,<br>2.4~6.66A   |                    | 219x63x35.5    |
| XLG-320□            |                       |                        | 150~300V,<br>0.5~1.4A   | 74~148V,<br>2.1~2.8A | 30~56V,<br>5.57~7.42A  | 24V/13A<br>12V/18A | 246x77x39.5    |

□ = Blank/I Blank: For standard version I: For India version ○ = Blank/A/B/AB 12V/24V without dimming

For more details, please refer to P.34

| Model No.      | Output(V/A)     | Dimension (mm) |
|----------------|-----------------|----------------|
| XLG-240-48-ABV | 43.2~52.8V/5A   | 219x63x35.5    |
| XLG-320-48-ABV | 43.2~52.8V/6.5A | 246x77x39.5    |

50~320W

# XLG-DA2 Series

## ■ Features

- Wide input range 100~305VAC (Class I)
- Full power output at 70~100% constant power mode operation
- Metal case with IP67, suitable for outdoor application
- Surge protection with 6KV/4KV
- DALI-2 Dimming with minimum level 8%
- 12V / 250mA auxiliary power available (Optional, XLG-150~320)
- India(EESL) version with input over voltage protection; can survive input voltage stress of 440Vac for 48 hours
- Protection functions: SCP/OTP
- Life time >50,000 hrs
- 5 years warranty



XLG-DA2

## ■ Models



| Model No.<br>Output | L○                   | M○                 | H○                  | Dimension<br>(mm) |
|---------------------|----------------------|--------------------|---------------------|-------------------|
| XLG-50□             | 60~142V, 0.3~0.7A    |                    | 25~56V, 0.5~1.4A    | 105x63x30         |
| XLG-75□             | 53~107V, 0.35~1.05A  |                    | 27~56V, 0.7~2.1A    | 140x63x32         |
| XLG-100□            | 71~142V, 0.35~1.05A  |                    | 27~56V, 0.875~2.78A | 140x63x32         |
| XLG-150□            | 120~214V, 0.35~1.05A | 60~107V, 0.7~2.1A  | 27~56V, 1.4~4.17A   | 180x63x35.5       |
| XLG-200□            | 142~285V, 0.35~1.05A |                    | 27~56V, 1.75~5.55A  | 199x63x35.5       |
| XLG-240□            | 178~342V, 0.35~1.05A | 90~171V, 0.7~2.1A  | 27~56V, 2.4~6.66A   | 219x63x35.5       |
| XLG-320□            | 150~300V, 0.5~1.4A   | 74~148V, 1.05~2.8A | 30~56V, 2.8~7.42A   | 246x77x39.5       |

□ = Blank/I    Blank: For standard version    I: For India version

○ = DA2, DA2-A

DA2: DALI-2 dimming function

DA2-A: DALI-2 dimming function with 12V/250mA auxiliary available (Optional) (150~320W)

# ELG/ELG-C/ELGC Series 75~300W

## Features

- Constant voltage+constant current modes (ELG series)  
Constant current mode (ELG-C series)  
Constant power mode (ELGC-300 series)
- Universal AC input: 100~305VAC
- Metal case with IP67
- Meet 6KV surge immunity level (IEC61000-4-5)
- Type HL LED Driver for use in Class I,  
Division 2 hazardous location luminaires
- No load / Standby power consumption <0.5W
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Current /  
Over Voltage / Over Temp.
- 5 years warranty



ELG Spec



ELG-C Spec



ELGC Spec

## Models



| Model No.      | ELG-75      | ELG-100     | ELG-150     | ELG-200     | ELG-240 | ELG-300     |
|----------------|-------------|-------------|-------------|-------------|---------|-------------|
| Output (V)     | 12○-□       | 24○-□       | 12○-□       | 12○-□       | 24○-□   | 12A         |
|                | 24○-□       | 36○-□       | 24○-□       | 24○-□       | 36○-□   | 24A         |
|                | 36○-□       | 42○-□       | 36○-□       | 36○-□       | 42○-□   |             |
|                | 42○-□       | 48○-□       | 42○-□       | 42○-□       | 48○-□   |             |
|                | 48○-□       | 54○-□       | 48○-□       | 48○-□       | 54○-□   |             |
|                |             |             | 54○-□       | 54○-□       |         |             |
| Dimension (mm) | 180x63x35.5 | 199x63x35.5 | 219x63x35.5 | 244x71x37.5 |         | 246x77x39.5 |

| Model No.      | ELG-75-C    | ELG-100-C   | ELG-150-C   | ELG-200-C   | ELG-240-C |
|----------------|-------------|-------------|-------------|-------------|-----------|
| Output (mA)    | 350○-□      | 350○-□      | 500○-□      | 700○-□      | 700○-□    |
|                | 500○-□      | 500○-□      | 700○-□      | 1050○-□     | 1050○-□   |
|                | 700○-□      | 700○-□      | 1050○-□     | 1400○-□     | 1400○-□   |
|                | 1050○-□     | 1050○-□     | 1400○-□     | 1750○-□     | 1750○-□   |
|                | 1400○-□     | 1400○-□     | 1750○-□     | 2100○-□     | 2100○-□   |
|                |             |             | 2100○-□     |             |           |
| Dimension (mm) | 180x63x35.5 | 199x63x35.5 | 219x63x35.5 | 244x71x37.5 |           |

| Model No.    | Output (V) | Output(mA) |            | Dimension (mm) |
|--------------|------------|------------|------------|----------------|
|              |            | 100~180VAC | 200~305VAC |                |
| ELGC-300-L-○ | 116~232    | 650~1700   | 650~2000   | 246x77x39.5    |
| ELGC-300-M-○ | 58~116     | 1300~3400  | 1300~4000  |                |
| ELGC-300-H-○ | 29~58      | 2600~6800  | 2600~8000  |                |

□=Blank, 3Y;      Blank: 2-wire input for standard mode; 3Y: 3-wire input for standard mode

○=Blank, A, B (ELGC-300 except), AB, Dx, DA (ELG only), ADA (ELGC-300 only)

For more details, please refer to P.34

# 40~600W

# HLG Series

## Features

- Constant voltage+constant current modes
- Wide AC input: 90~305VAC
- Metal housing with Class I design
- High efficiency up to 94%
- Meet 4KV surge immunity level (IEC61000-4-5)
- Type HL LED driver for use in Class I, Division 2 hazardous location luminaires
- Class 2 power unit (HLG-40H~100H)
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Current / Over Voltage / Over Temp.
- 7 years warranty



HLG Spec

## Models



| Model No.      | HLG-40H       | HLG-60H | HLG-80H         | HLG-100H | HLG-120H    | HLG-150H |
|----------------|---------------|---------|-----------------|----------|-------------|----------|
| Output (V)     | 12□           | 15□     | 12□             | 20□      | 12□         | 12□      |
|                | 15□           | 20□     | 15□             | 24□      | 15□         | 15□      |
|                | 20□           | 24□     | 20□             | 30□      | 20□         | 20□      |
|                | 24□           | 30□     | 24□             | 36□      | 24□         | 24□      |
|                | 30□           | 36□     | 30□             | 42□      | 30□         | 30□      |
|                | 36□           | 42□     | 36□             | 48□      | 36□         | 36□      |
|                | 42□           | 48□     | 42□             | 54□      | 42□         | 42□      |
|                | 48□           | 54□     | 48□             |          | 48□         | 48□      |
|                | 54□           |         | 54□             |          | 54□         | 54□      |
| Dimension (mm) | 171x61.5x36.8 |         | 195.6x61.5x38.8 |          | 220x68x38.8 |          |

| Model No.      | HLG-185H    | HLG-240H                           | HLG-320H    | HLG-480H     | HLG-600H     |
|----------------|-------------|------------------------------------|-------------|--------------|--------------|
| Output (V)     | 12□         | 12□                                | 12□         | 24□          | 12□          |
|                | 15□         | 15□                                | 15□         | 30□          | 15□          |
|                | 20□         | 20□                                | 20□         | 36□          | 20□          |
|                | 24□         | 24□                                | 24□         | 42□          | 24□          |
|                | 30□         | 30□                                | 30□         | 48□          | 30□          |
|                | 36□         | 36□                                | 36□         | 54□          | 36□          |
|                | 42□         | 42□                                | 42□         |              | 42□          |
|                | 48□         | 48□                                | 48□         |              | 48□          |
|                | 54□         | 54□                                | 54□         |              | 54□          |
| Dimension (mm) | 228x68x38.8 | 244x68x38.8<br>C-Type: 251x68x38.8 | 252x90x43.8 | 262x125x43.8 | 280x144x48.5 |

□ = A, B, AB, C (240W/320W only), D (40~480W), Dx (480W only), BL (80W only), Blank (40~320W)

For more details, please refer to P.34

# HLG-C Series

60~480W

## Features

- Constant current mode
- Wide AC input: 90~305VAC
- Metal housing with Class I design
- High efficiency up to 95%
- Type HL LED driver for use in Class I, Division 2 hazardous location luminaires
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Voltage / Over Temp.
- 7 years warranty



HLG-C Spec

## Models



| Model No.      | HLG-60H-C     | HLG-80H-C       | HLG-120H-C  | HLG-185H-C  |
|----------------|---------------|-----------------|-------------|-------------|
| Output (mA)    | 350□          | 350□            | 350□        | 500□        |
|                | 700□          | 700□            | 500□        | 700□        |
|                |               |                 | 700□        | 1050□       |
|                |               |                 | 1050□       | 1400□       |
|                |               |                 | 1400□       |             |
| Dimension (mm) | 171x61.5x36.8 | 195.6x61.5x38.8 | 220x68x38.8 | 228x68x38.8 |

| Model No.      | HLG-240H-C    | HLG-320H-C  | HLG-480H-C   |
|----------------|---------------|-------------|--------------|
| Output (mA)    | 700□          | 700□        | 1400□        |
|                | 1050□         | 1050□       | 1750□        |
|                | 1400□         | 1400□       | 2100□        |
|                | 1750□         | 1750□       | 2800□        |
|                | 2100□         | 2100□       | 3500□        |
|                |               | 2800□       |              |
|                |               | 3500□       |              |
| Dimension (mm) | 244.2x68x38.8 | 252x90x43.8 | 262x125x43.8 |

□ = A, B, AB, D (60~185W), Dx (240~480W), DA (320W only)

For more details, please refer to P.34

65~480W

# HVG Series

## ■ Features

- Constant voltage+constant current modes
- Wide AC input: 180~528VAC
- Metal housing with Class I design
- Type HL LED driver for use in Class I,  
Division 2 hazardous location luminaires (except HVG-65)
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Current / Over Voltage / Over Temp.
- 5 years warranty



HVG Spec

## ■ Models



| Model No.      | HVG-65        | HVG-100     | HVG-150     |
|----------------|---------------|-------------|-------------|
| Output (V)     | 12□           | 15□         | 12□         |
|                | 15□           | 20□         | 15□         |
|                | 20□           | 24□         | 20□         |
|                | 24□           | 30□         | 24□         |
|                | 30□           | 36□         | 30□         |
|                | 36□           | 42□         | 36□         |
|                | 42□           | 48□         | 42□         |
|                | 48□           | 54□         | 48□         |
| Dimension (mm) | 189x61.5x36.8 | 236x68x38.8 | 245x68x38.8 |

| Model No.      | HVG-240       | HVG-320     | HVG-480      |
|----------------|---------------|-------------|--------------|
| Output (V)     | 24□           | 24□         | 24□          |
|                | 30□           | 30□         | 30□          |
|                | 36□           | 36□         | 36□          |
|                | 42□           | 42□         | 42□          |
|                | 48□           | 48□         | 48□          |
|                | 54□           | 54□         | 54□          |
| Dimension (mm) | 254.2x68x38.8 | 262x90x43.8 | 262x125x43.8 |

□ = A, B, AB, D (65~150W), Dx (240~480W)

For more details, please refer to P.34

# HVGC Series

65~1000W

## Features

- Constant current mode (HVGC-65~320)
- Constant power mode (HVGC-480~1000)
- Wide AC input: 180~528VAC
- Metal housing with Class I design
- High efficiency up to 95.5%
- Type HL LED driver for use in Class I, Division 2 hazardous location luminaires (except HVGC-65/1000)
- Multiple models for choice, see P.34 for more details
- Auxiliary DC output available
- Protections: Short Circuit / Over Voltage / Over Temp.
- 5 years warranty



HVGC Spec

## Models



| Model No.      | HVGC-65       | HVGC-150    | HVGC-240      | HVGC-320    |
|----------------|---------------|-------------|---------------|-------------|
| Output (mA)    | 350□          | 350□        | 700□          | 700□        |
|                | 500□          | 500□        | 1050□         | 1050□       |
|                | 700□          | 700□        | 1400□         | 1400□       |
|                | 1050□         | 1050□       | 1750□         | 1750□       |
|                |               | 1400□       | 2100□         | 2100□       |
|                |               |             | 2800□         | 2800□       |
|                |               |             | 3500□         | 3500□       |
| Dimension (mm) | 189x61.5x36.8 | 245x68x38.8 | 254.2x68x38.8 | 262x90x43.8 |

| Model No.      | HVGC-480     |                        | HVGC-650     |                       | HVGC-1000    |                       |
|----------------|--------------|------------------------|--------------|-----------------------|--------------|-----------------------|
| Output (V/mA)  | L-□          | 137~343,<br>1400~1750  | ○-L-□        | 93~232,<br>2800~3500  | ○-L-□        | 150~380,<br>1320~3280 |
|                | M-□          | 92~228.5,<br>2100~2625 | ○-M-□        | 62~155,<br>4200~5250  | ○-M-□        | 95~240,<br>2100~5250  |
|                | H-□          | 68~171.5,<br>2800~3500 | ○-H-□        | 47~116,<br>5600~7000  | ○-H-□        | 70~180,<br>2800~7000  |
|                |              |                        | ○-U-□        | 24~58,<br>11200~14000 |              |                       |
| Dimension (mm) | 262x125x43.8 |                        | 280x144x48.5 |                       | 310x144x48.5 |                       |

○ = Blank (650W only), A Blank: without auxiliary function (12V@200mA) ; A: with auxiliary DC output power  
 □ = Blank (480W only), A (65~320W), B (65~320W), AB, D (65~150W), Dx (240~1000W), DA (650W,1000W), ADA (480W only)  
 For more details, please refer to P.34

200~400W

# ERP(F) Series

## ■ Features

- Constant voltage mode
- Withstand 300VAC surge input for 5 secs.
- Metal case design
- Design against rain splash
- Built-in active PFC function (ERPF series)
- Cooling by free air convection
- LED indicator for power on
- 3 years warranty



ERP Spec



ERPF Spec

## ■ Models



| Model No.      | ERP-200    | ERP-350      | ERPF-400     |
|----------------|------------|--------------|--------------|
| Input (V)      | 180~264    | 180~264      | 90~264       |
| Output(V/A)    | 12V/16.8A  | 12V/26.7A    | 12V/30A      |
|                | 24V/8.3A   | 24V/14.6A    | 24V/16.7A    |
|                |            | 36V/9.7A     | 48V/8.3A     |
|                |            | 48V/7.3A     |              |
| Dimension (mm) | 200x120x40 | 220.4x130x48 | 220.4x130x48 |

# HBG(C)/XBG Series

60~300W

## HBG Features

- Constant current mode (HBG-60/100)  
Constant voltage+constant current modes (HBG-160/200/240)  
Constant power mode, full power at 60~100% current (HBGC-300)
- Wide AC input: 90~305VAC
- Circular metal housing with Class I design (except for HBG-60)
- Fully isolated plastic case (only for HBG-60)
- Built-in active PFC function
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Current (HBG-100~240)/ Over Voltage (except for HBG-60)/ Over Temp.
- 5 years warranty



HBG Spec

## XBG Features

- Constant power mode
- Full power at 70~100% current
- Wide AC input: 100~305VAC
- Built-in active PFC function
- Circular metal housing design with IP67
- AC input cable with connector type for flexible installation
- Isolation design between output and dimming circuit
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Voltage / Over Temp.
- 5 years warranty



XBG Spec

## Models



| Model No.          | HBG-60     | HBG-100    | HBG-160       | HBG-200       | HBG-240    | HBGC-300                |                       |                      |
|--------------------|------------|------------|---------------|---------------|------------|-------------------------|-----------------------|----------------------|
|                    |            |            |               |               |            | L-□                     | M-□                   | H-□                  |
| Output             | 1050mA     | 24□        | 24□           | 36□           | 24□        | 116~232V,<br>0.65~2.17A | 58~116V,<br>1.3~4.33A | 29~58V,<br>2.6~8.07A |
|                    | 1400mA     | 36□        | 36□           | 48□           | 36□        |                         |                       |                      |
|                    | 2100mA     | 48□        | 48□           | 60□           | 48□        |                         |                       |                      |
|                    |            | 60□        | 60□           |               | 60□        |                         |                       |                      |
| Dimension (DxH mm) | φ110x 60.5 | φ130x 66.5 | φ151.68x 66.5 | φ151.68x 66.5 | φ191.5x 69 | φ191.5x 69              |                       |                      |

□ = Blank, A, B, AB, DA (100~240W), ADA (300W only)

For more details, please refer to P.34



| Model No.          | XBG-100-□-○         | XBG-160-□-○        | XBG-240-□-○       |
|--------------------|---------------------|--------------------|-------------------|
| Output             | 27~56V, 0.875~2.78A | 34~56V, 1.425~4.1A | 30~60V, 2.85~5.7A |
| Dimension (DxH mm) | φ130x 56            | φ151.5x 60         | φ191x 63          |

□ = A, AB

For more details, please refer to P.34

○ = Blank, C

Blank: AC input with fixed cable

C: AC input with connector



**SHYLON**  
芯龙光电  
CERTIFIED PARTNER



## PCB Type

23 | PLP (30~60W)

24 | HBG-P (60~240W)

### Application



Indoor



Bay Light



Explosion  
proof light



Flood Light

# PLP Series

30~80W

## ■ PLP Features

- Constant current mode
- Universal AC input : 90~264VAC
- Class 2 power unit / Pass LPS
- Built-in active PFC function
- Protections: Short Circuit / Over Current / Over Voltage
- 2 years warranty



PLP Spec

## ■ Models



| Model No.      | PLP-30          | PLP-60          |
|----------------|-----------------|-----------------|
| Output (V/mA)  | 12, 0~2.5       | 12, 0~5         |
|                | 24, 0~1.3       | 24, 0~2.5       |
|                | 48, 0~0.63      | 48, 0~1.3       |
| Dimension (mm) | 101.6x50.6x26.6 | 101.6x50.8x29.6 |

60~240W

# HBG-P Series

## ■ Features

- Constant current mode (HBG-60P/100P)
- Constant voltage+constant current modes (HBG-160P/240P)
- Wide AC input : 90~305VAC (up to 295VAC for HBG-60P)
- Circular shaped PCB design
- Built-in active PFC function
- High efficiency up to 93.5%
- Multiple models for choice, see P.34 for more details
- Protections: Short Circuit / Over Temp.
- 5 years warranty



HBG-P Spec

## ■ Models



| Model No.          | HBG-60-P | HBG-100-P | HBG-160-P  | HBG-240-P |
|--------------------|----------|-----------|------------|-----------|
| Output (mA/V)      | 1050mA   | 36□       | 36□        | 36□       |
|                    | 1400mA   | 48□       | 48□        | 48□       |
|                    | 2100mA   | 60□       | 60□        | 60□       |
| Dimension (DxH mm) | φ99x 26  | φ104x 34  | φ124.6x 34 | φ144x 31  |

□=A, B



## DC-DC LED Driver & Controller & Accessory

26 DC HOUSE

27 LDH

27 LDB

28 NLDD

28 NHDD

29 LDD

29 LDDS

30 SPD

30 ICL-16R/L

31 DAP-04

31 DLP-04

31 DLS

32 DTP

32 DLC-02

32 KAA

33 KNX

33 KSI

33 KSR

33 KSC

### Application



Indoor



Recessed Light



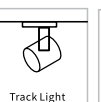
LED Bar Light



Down Light



Tri-proof Light



Track Light



Trunking



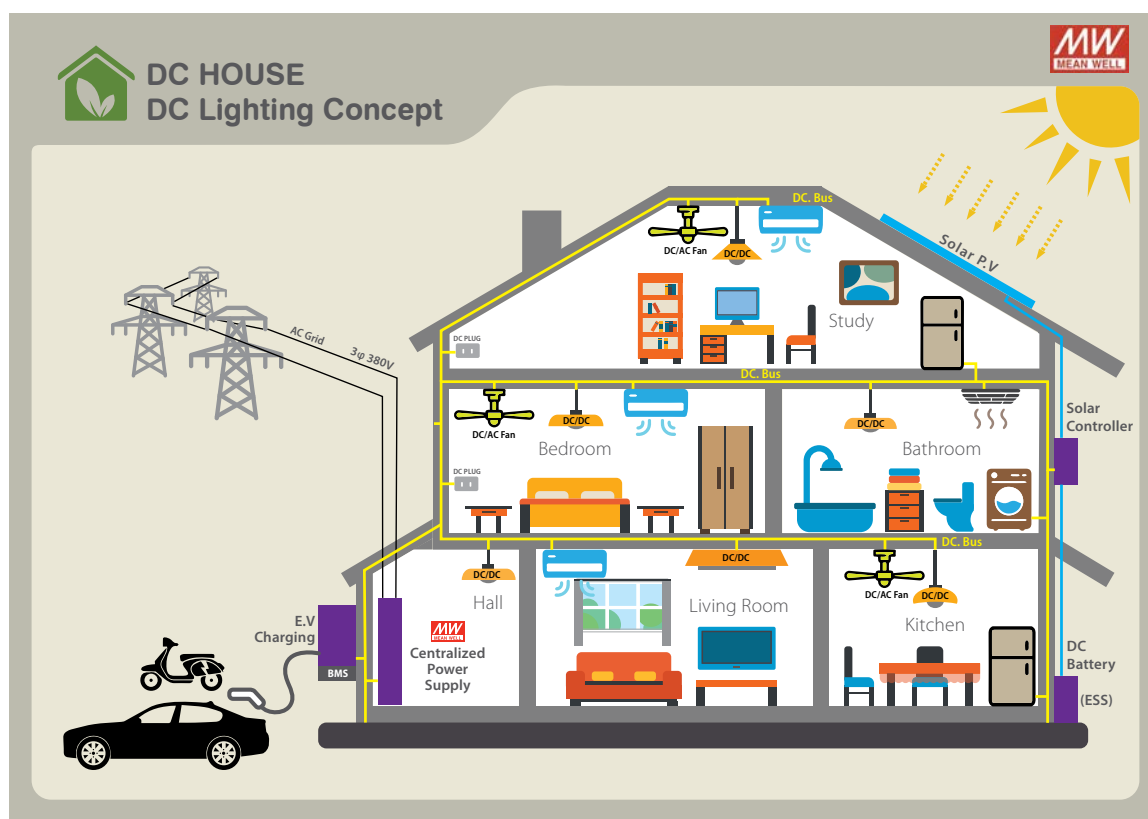
Solar Street Light

# DC House

As increases in energy costs and demands to reduce fossil-based emissions are accelerating a worldwide call for clean energy and efficient power consumption, the DC House is far beyond a concept but necessary infrastructure. MEAN WELL is proud to introduce a new DC centralized bus for indoor device applications to reduce power loss issue.

With four decades of experience in power supply design and manufacturing, MEAN WELL provides power solutions for DC centralized bus and DC lighting applications with complete enclosed type and DC to DC LED driver product portfolios. The DC centralized bus is easily integrated into a renewable energy system to reduce power consumption and total cost.

Please refer to the below diagram for a brand new "DC WORLD".



## DC Centralized Bus for Lighting Application Selection Guide

| Voltage type               | Front-end<br>(AC to DC Enclosed type)                        | Back-end<br>(DC to DC LED driver) | Dimming function                           |
|----------------------------|--------------------------------------------------------------|-----------------------------------|--------------------------------------------|
| Low Voltage bus<br>(48V)   | UHP-1500(103W)<br>RST-5000/10000 (304W)<br>SHP-10K/30K(303W) | NLDD-H series<br>LDDS-HWB series  | · PWM<br>· 0-10V                           |
| High Voltage bus<br>(380V) | UHP-1500(103W)<br>RST-7K5/15K (304W)<br>SHP-10K/30K(303W)    | NHDD series                       | · PWM<br>· Dim with DAP-04 for DALI system |

# LDH/LDB Series

## LDH Features

- DC/DC step-up converter
- Wide DC input voltage operation 9.5~32V
- High efficiency up to 96%
- Comply with BS EN55015/FCC part 15 for radiation emission without additional input filter and capacitors
- 2 in 1 dimming (0~10V, PWM)
- Class III safety voltage application
- Protections: Short Circuit / Over Voltage / Under Voltage
- 3 years warranty



LDH Spec

## LDB Features

- DC/DC buck-boost converter
- Constant current output: 300~600mA
- Wide input voltage: 9~36VDC
- High efficiency up to 91%
- Comply with BS EN/EN55015 and FCC part15
- Built-in PWM and remote ON/OFF control
- Protections: Short Circuit / Over Temp.
- 3 years warranty



LDB Spec

## Models



| Model No.     | LDH-25       | LDH-45A      | LDH-45B      | LDH-45A-DA   | LDH-45B-DA   | LDH-65       |
|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Input (V)     | 9.5~32       | 9~18         | 18~32        | 9~18         | 18~32        | 9.5~32       |
| Output (mA/V) | 250□, 12~84  | 350□, 12~86  | 350□, 21~126 | 350□, 24~86  | 350□, 36~126 | 700□, 12~80  |
|               | 350□, 12~72  | 500□, 12~86  | 500□, 21~86  | 500□, 24~86  | 500□, 36~86  | 1050□, 12~60 |
|               | 500□, 12~50  | 700□, 12~64  | 700□, 21~64  | 700□, 24~64  | 700□, 36~64  | 1400□, 12~46 |
|               | 700□, 12~36  | 1050□, 12~43 | 1050□, 21~43 | 1050□, 24~43 | 1050□, 36~43 | 1750□, 12~37 |
| Dimension(mm) | 52.4x27.2x24 | 75x53x22.7   |              |              |              | 75x53x22.7   |

□=Blank, W Blank: Pin style W: Wire style

DA: DALI dimming

| Model No.     | LDB-300L○      | LDB-350L○ | LDB-500L○ | LDB-600L○ |
|---------------|----------------|-----------|-----------|-----------|
| Input (V)     | 9~36           | 9~36      | 9~30      | 9~28      |
| Output (mA/V) | 300, 2~40      | 350, 2~40 | 500, 2~32 | 600, 2~30 |
| Dimension(mm) | 31.8x20.3x12.2 |           |           |           |

○=Blank, W Blank: Pin style W: Wire style

# NLDD/NHDD Series

## NLDD Features

- DC/DC step-down converter
- Constant current output: 350~1400mA
- Wide input voltage: 10~56VDC
- High efficiency up to 96%
- Comply with BS EN/EN61347 and S EN/EN55015 regulation
- Built-in PWM and remote ON/OFF control
- Class III safety voltage application
- Protections: Short Circuit / Over Temp.
- 3 years warranty



NLDD Spec

## NHDD Features

- Constant current mode output
- For DC 380V BUS lighting luminaire
- Driver on Board (DoB) solution available
- Plastic housing and fully encapsulated
- Built-in PWM and remote ON/OFF control
- Protections: Short Circuit / Over Temp.
- 5 years warranty



NHDD Spec

## Models



| 机型            | NLDD-350H○     | NLDD-500H○ | NLDD-700H○ | NLDD-1050H○ | NLDD-1200H○ | NLDD-1400H○ |
|---------------|----------------|------------|------------|-------------|-------------|-------------|
| Input (V)     | 10~56          | 10~56      | 10~56      | 10~56       | 10~56       | 10~56       |
| Output (mA/V) | 350, 6~52      | 500, 6~52  | 700, 6~52  | 1050, 6~52  | 1200, 6~46  | 1400, 6~46  |
| Dimension(mm) | 32.1x20.5x12.5 |            |            |             |             |             |

○=Blank, W Blank: Pin style W: Wire style

| 机型            | NHDD-40          |
|---------------|------------------|
| Input (V)     | 360~420          |
| Output (mA/V) | 100□, 350V(typ.) |
| Dimension(mm) | 32.1x20.5x12.5   |

□=Blank, W Blank: Pin style W: Wire style

# LDD/LDDS Series

## LDD Features

- DC/DC step-down converter
- Constant current output: 350~1400mA
- Wide input voltage: 6~50VDC
- High efficiency up to 97%
- Comply with BS EN/EN55015
- Built-in PWM and remote ON/OFF control
- Protections: Short Circuit / Over Temp.
- 3 years warranty



LDD Spec

## LDDS Features

- DC/DC step-down converter
- Constant current output: 250~1000mA
- Wide input voltage: 12~56VDC
- High efficiency up to 96%
- Built-in EMI filter, comply with BS EN/EN55015
- Fully enclosed plastic case
- 3 in 1 dimming and remote ON/OFF control
- Protections: Short Circuit / Over Current / Over Temp.
- 5 years warranty



LDDS Spec

## Models



| Model No. | Input (V) |      | Output (V) |      | Output (mA) |
|-----------|-----------|------|------------|------|-------------|
|           | L/LW      | LS   | L/LW       | LS   |             |
| LDD-300L□ | 9~36      | 9~32 | 2~32       | 2~28 | 300         |
| LDD-350L□ | 9~36      | 9~32 | 2~32       | 2~28 | 350         |
| LDD-500L□ | 9~36      | 9~32 | 2~32       | 2~28 | 500         |
| LDD-600L□ | 9~36      | 9~32 | 2~32       | 2~28 | 600         |
| LDD-700L□ | 9~36      | 9~32 | 2~32       | 2~28 | 700         |
| LDD-1000L | 2~30      |      | 6~36       |      | 1000        |

□=Blank, W, S

Blank: Pin style    W: Wire style    S: SMD style

| 机型           | Input (V) | Output (V) | Output (mA) |
|--------------|-----------|------------|-------------|
| LDDS-250HW□  | 12~56     | 2~45       | 250         |
| LDDS-300HW□  | 12~56     | 2~45       | 300         |
| LDDS-350HW□  | 12~56     | 2~45       | 350         |
| LDDS-500HW□  | 12~56     | 2~45       | 500         |
| LDDS-700HW□  | 12~56     | 2~45       | 700         |
| LDDS-1000HW□ | 12~56     | 2~45       | 1000        |

□=Blank, B

Blank: Without Dimming    B: With 3 in 1 Dimming

# SPD/ICL Series

## SPD 10kA Surge Protection Device

### ■ Features

- UL1449, Type 4, BS EN/IEC61643-11 (SPD-10S)
- Line to Ground & Line to Line protected
- Series connection type
- IP66
- LED status indicators
- Thermally protected



## SPD 20kA Surge Protection Device

### ■ Features

- UL1449, Type 2 (SPD-20), Type 4 (SPD-20HP) component assemblies
- Line to Ground & Line to Line protected
- Parallel (3 wires) connection style (SPD-20HP)
- Series connection type (SPD-20)
- IP67 (SPD-20); IP66 (SPD-20HP)
- Thermally protected (SPD-20HP)



SPD Spec

## ■ Models



| Model No.         | SPD-10S-277S   | SPD-20-240P | SPD-20-277P | SPD-20HP-277S | SPD-20HP-480S |
|-------------------|----------------|-------------|-------------|---------------|---------------|
| Operating Voltage | 120~277VAC     | 240VAC      | 277VAC      | 120~277VAC    | 347~480VAC    |
| Dimension (mm)    | 56.76x46.36x26 | 90x70x50    |             | 71.6x67.7x32  |               |

## ICL 16A/28A AC Inrush Current Limiter

### ■ Features:

- 23A inrush limiting current, 16A continuous (ICL-16R/L)
- 48A inrush limiting current, 28A continuous (ICL-28R/L)
- 180~264VAC AC input
- Integrated bypass relay, no simple NTC
- Internal thermal protection
- Installed on DIN Rail TS-35/7.5 or 15 (ICL-16R/28R)
- -30~+70°C wide working temperature
- 3 years warranty



ICL-16R/28R



ICL-16L/28L



ICL Spec

| Model No.                   | ICL-16R    | ICL-16L   | ICL-28R    | ICL-28L   |
|-----------------------------|------------|-----------|------------|-----------|
| Inrush Current Limiting     | 23A        | 23A       | 48A        | 48A       |
| AC Continuous Rated Current | 16A        | 16A       | 28A        | 28A       |
| Dimension (mm)              | 35x90x54.5 | 175x42x24 | 52.5x90x54 | 175x42x24 |

# DAP/DLP/DLS Series

## DAP-04 DALI to PWM Converter



### ■ Features

- Convert DALI signal to PWM signal
- Universal AC input: 90~305VAC
- 4 DALI addressable output channels
- Built-in push dim function
- Linear or logarithm dimming curve selectable (comply with IEC62386-207)
- Dimming range: 1~100%
- Built-in relay for ON/OFF control of LED PSU
- Two models for choice:
- Blank-Type: 4 channels with 4 DALI addresses
- S01-Type: 4 channels with 4 or 1 DALI address selectable
- 3 years warranty



L165x W46x H23mm



DAP-04

## DLP-04L/R DALI Bus Power Supply



### ■ Features

- Universal AC input: 90~264VAC
- Withstand 300VAC surge input for 5 seconds
- Isolation class II
- No load power consumption <0.5W (type L)
- Compact size with 2SU(35mm) width (type R)
- 3 years warranty



**DLP-04R**

W35x H90x D54.5mm



**DLP-04L**

L145x W38x H22mm



DLP Spec

## DLS DALI-2 PIR Motion Sensor **NEW**



### ■ Features

- Certified to DALI-2 standards
- Compliant with IEC-62386-101/103/303/304
- Powered via the DALI bus
- PIR motion detection
- Daylight sensor detection available
- Max detection range: 6-8m in diameter (DLS-203-P)
- 8-10m in diameter (DLS-208-P)
- 6m max mounting height (DLS-203-P)
- 10m max mounting height (DLS-208-P)
- Flush mounting, surface mounting available (Only DLS-208-P)
- 5 years warranty



**DLS-203-P**



**DLS-208-P**



DLS Spec

# DTP/DLC/KAA Series



## NEW DTP DALI-2 Touch Panel

### Features

- DALI-2 certified touch panel
- Compliant with IEC-62386-301 push button
- Compliant with IEC-62386-332 feedback
- Compatible for DALI-2 controllers
- Powered by DALI Bus
- Configurable functionality via MEAN WELL DLC-02 software
- Each button can trigger multiple modes: Short Click/Double Click/Long Press, to trigger scene or grouping functions
- Backlight brightness adjustable
- Touch panel volume adjustable
- 5 years warranty



6 keys-U type



4 keys-U type



6 keys-E type



3 keys-E type



DTP



## DLC-02 DALI-2 Controller / KNX-DALI Gateway

### Features

- DALI-2 multi-master application controller
- Universal AC input: 100~277VAC
- Two independent DALI Bus channels with built in bus power supply (up to 250mA per bus)
- Connect up to 2x64 DALI ECGs/Driver and up to 2x12 DALI input devices
- LCD display, LED indicators and buttons for local operation
- Built in with 250V/5A(x4) relay
- Easy installation and configuration via PC software or web browser
- KNX to DALI gateway (DLC-02KN)
- 5 years warranty



DLC-02/DLC-02-KN

L145x W38x H22mm



DLC-02



## KAA-4R4V/8R KNX LED Actuator / Dimmer

### Features

- Dimming and switching LED driver and conventional electronic ballast (KAA-4R4V)
- Linear or logarithmic dimming curve programmable via ETS software (KAA-4R4V)
- 8 channel actuator in a compact size (KAA-8R)
- For AX, C-load, capacitive & inductive of loads (KAA-8R)
- Manual control via panel Push button
- Programmable various time and scene function
- Support KNX Data Secure
- 3 years warranty



KAA-8R-16S  
KAA-8R-10S  
KAA-4R4V-10S

W70x H90x D57mm



KAA Spec

# KNX System Component

## KNX-20E/40E 640/1280mA KNX Power Supply

### ■ Features

- EIB / KNX power supply with Integrated choke
- AC input: 180~264VAC
- No load power consumption <0.5W
- Safety extra low voltage (SELV)
- Isolation class I
- Over voltage category III
- LED indicator for normal operation, bus reset and bus overload
- Compact size with 3SU/4SU width
- Protections: Short Circuit / Overload (Short-Circuit-Proof) / Over Voltage
- 3 years warranty



**KNX-20E-640**  
W52.5x H90x D54.5mm



**KNX-40E-1280**  
W72x H90x D57mm

| Model No.     | Vout 1<br>(with choke) | Vout 2<br>(without choke) | Iout<br>(I1 + I2) |
|---------------|------------------------|---------------------------|-------------------|
| KNX-20E-640   | Bus, 30V               | 30V                       | 640mA             |
| KNX-40E-1280□ | Bus, 30V               | 30V                       | 1280mA            |

□=Blank, D ; Blank= Basic function, D= Diagnostic function



KNX Spec

## KSI-01U KNX-USB Interface



### ■ Features

- No additional power supply required
- KNX commissioning addressing and parameters settings
- Long messages support up to 220 byte APDU
- 3 years warranty



W36x H90x D71mm



KSI-01U

## KSR-01IP KNX IP Router



### ■ Features

- No additional power supply required
- 4 KNX IP/TP tunnelings
- Built-in web front-end page
- 3 years warranty



W36x H90x D71mm



KSR-01IP

## KSC-01L KNX LINE Coupler



### ■ Features

- Telegram filtering function
- Long messages support up to 240 byte APDU
- Trace the subline traffic
- 3 years warranty



W36x H90x D71mm



KSC-01L

# Comparison Chart of Metal Case Models

| Series Name                                                        | Type                    | IP | Dimming                                                    | Vo / Io Adj | Remark                       |
|--------------------------------------------------------------------|-------------------------|----|------------------------------------------------------------|-------------|------------------------------|
| XLG-20/25/50/75/100/<br>150/200/240/320                            | Blank (25W, 50W except) | 67 |                                                            |             | 20W Standard, 70~300W Option |
|                                                                    | A                       |    |                                                            | Io          | Standard                     |
|                                                                    | B (20W only)            |    | 3 in 1 (Note 1)                                            |             |                              |
|                                                                    | AB (20W except)         |    |                                                            | Io          |                              |
| XLG-50/75/100/150/<br>200/240/320-DA2                              | Blank                   | 67 |                                                            | Io          | Standard                     |
|                                                                    | DA2                     |    | DALI-2 dimming function                                    |             | Option                       |
|                                                                    | DA2-A                   |    | DALI-2 dimming function with 12V/250mA Auxiliary available |             |                              |
| HLG-40H/60H/80H /100H/<br>120H/150H /185H/240H/<br>320H/ 480H/600H | Blank (40~320W)         | 67 |                                                            |             | Standard                     |
|                                                                    | A                       | 65 |                                                            | ✓           |                              |
|                                                                    | B                       | 67 | 3 in 1 (Note 2)                                            |             |                              |
|                                                                    | AB                      | 65 | 3 in 1 (Note 2)                                            | ✓           |                              |
|                                                                    | C (240W/320W only)      |    | Terminal block I/O                                         | ✓           | Option                       |
|                                                                    | D (40~480W)             | 67 | Timer dimming                                              |             | Option                       |
|                                                                    | Dx (480W only)          |    | Smart Timer dimming/By request                             |             |                              |
|                                                                    | BL (80W only)           | 66 | B-Type with junction box, UL8750 LISTED, 3 in 1 (Note 2)   |             | Option                       |
| HLG-60H-C/80H-C/120H-C/<br>185H-C/240H-C/320H-C/<br>480H-C         | A                       | 65 |                                                            | Io          | Standard                     |
|                                                                    | B                       | 67 | 3 in 1 (Note 2)                                            |             |                              |
|                                                                    | AB                      | 65 | 3 in 1 (Note 2)                                            | Io          |                              |
|                                                                    | D (60~185W)             | 67 | Timer dimming                                              |             | Option                       |
|                                                                    | Dx (240~480W)           |    | Smart Timer dimming/By request                             |             | Option                       |
|                                                                    | DA (320W only)          |    | DALI                                                       |             | Standard                     |
| ELG-75/100/150/200 /240<br>ELG-75-C/100-C/150-C/<br>200-C/240-C    | Blank                   | 67 |                                                            |             | Standard                     |
|                                                                    | A                       | 65 |                                                            | ✓/Io(ELG-C) |                              |
|                                                                    | B                       | 67 | 3 in 1 (Note 1)                                            |             |                              |
|                                                                    | AB                      | 65 | 3 in 1 (Note 1)                                            | ✓/Io(ELG-C) |                              |
|                                                                    | Dx                      | 67 | Smart Timer dimming/By request                             |             | Option                       |
|                                                                    | DA                      |    | DALI                                                       |             | Standard                     |
| ELG-300                                                            | A                       | 67 |                                                            | Io          | Standard                     |
| ELGC-300                                                           | Blank                   | 67 |                                                            |             | Standard                     |
|                                                                    | A                       |    |                                                            | Io          | Standard                     |
|                                                                    | AB                      |    | 3 in 1 (Note 1)                                            | Io          |                              |
|                                                                    | Dx                      |    | Smart Timer dimming/By request                             |             | Option                       |
|                                                                    | ADA                     |    | DALI-2                                                     | Io          | Standard                     |
| XBG-100/160/240                                                    | A                       | 67 |                                                            | Io          | Standard                     |
|                                                                    | AB                      |    | 3 in 1 (Note 1)                                            |             |                              |
| HBG-60/60P                                                         | Blank                   | 67 |                                                            |             | Standard                     |
| HBG-100/160/200/240                                                | A                       | 65 |                                                            | Io          |                              |
|                                                                    | B                       | 67 | 3 in 1 (Note 2)                                            |             |                              |
|                                                                    | AB                      | 65 | 3 in 1 (Note 2)                                            | Io          |                              |
|                                                                    | DA                      | 67 | DALI                                                       |             |                              |
| HBG-100P/160P/240P                                                 | A                       |    |                                                            | Io          | Standard                     |
|                                                                    | B                       |    | 3 in 1 (Note 2)                                            |             |                              |
| HBGC-300                                                           | A                       | 67 |                                                            | Io          | Standard                     |
|                                                                    | AB                      |    | 3 in 1 (Note 2)                                            |             |                              |
|                                                                    | ADA                     |    | DALI-2                                                     |             |                              |
| HVG-65/100/150/240/<br>320/480                                     | A                       | 65 |                                                            | ✓           | Standard                     |
|                                                                    | B                       | 67 |                                                            |             |                              |
|                                                                    | AB                      | 65 | 3 in 1 (Note 1)                                            | ✓           |                              |
|                                                                    | D (65~150W)             | 67 | Timer dimming                                              |             | Option                       |
|                                                                    | Dx (240~480W)           | 67 | Smart Timer dimming/By request                             |             |                              |
| HVG-65/150/240/<br>320/480/650/1000                                | Blank (480W only)       | 67 |                                                            |             | Option                       |
|                                                                    | A (65~320W)             | 65 |                                                            | Io          | Standard                     |
|                                                                    | B (65~320W)             | 67 |                                                            |             |                              |
|                                                                    | AB                      | 65 | 3 in 1 (Note 1)                                            | Io          |                              |
|                                                                    | D (65~150W)             | 67 | Timer dimming                                              |             | Option                       |
|                                                                    | Dx(240~1000W)           | 67 | Smart Timer dimming/By request                             |             |                              |
|                                                                    | DA (650W, 1000W)        | 67 | 650: DALI 1000: DALI-2                                     |             |                              |
|                                                                    | ADA (480W only)         | 65 | DALI-2                                                     | Io          | Standard                     |

Note 1: 3 in 1 = 0~10Vdc, 10V PWM signal, or resistance  
 Note 2: 3 in 1 = 1~10Vdc, 10V PWM signal, or resistance

# Sustainable Development Group



The prospect of Sustainable Development Group (SDG) was initiated by Jerry Lin, MEAN WELL's founder. He selected nine goals from United Nations Sustainable Development Goals (SDGs) and integrated the SDG spirits into the corporate sustainable development.

Sustainable Development Group is composed of four parts:

**MEAN WELL Group**, the solid foundation with 4 decades of history;

**PowerNex**, the equity investment company based in Taiwan;

**Share Well**, the group creates synergies through cooperation with power-related industries in China

**MEAN WELL Foundation**, the non-profit organization conserves the core value of "good intentions"

SDG Group aims to build industry alliances with global partners, and exerts the power of stability in the power supply industry, to make a better environment for the next generation



**SUSTAINABLE DEVELOPMENT GROUP**

**Reliable Partners · Sustainable Development**



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