Building Automation Solutions
Product Range Overview
Established in 1982, MEAN WELL is a leading standard switching power supply manufacturer in the world. MEAN WELL currently operates under five companies in Taiwan, China, USA and Europe and three factories in Taiwan, GuangZhou and SuZhou. The product lines include AC/DC switching power supplies, DC/DC converters, waterproof LED drivers, adaptors, DC/AC inverters and battery chargers. We have over 10,000 standard models widely used in medical, automation, communication, LED lighting, moving sign, and office automation applications.

With more than 30 years of experience in R&D and production of standard power supplies, MEAN WELL has ten product categories covering over 10,000 models, to provide "One Stop Shopping" power solutions. Every product in MEAN WELL is the result of rigid procedures governing design, design verification test (DVT), design quality test (DQT), component selection, pilot-run production, and mass production.

With more than 200 distributors globally, the MEAN WELL products are distributed to over 80 countries worldwide. The small size orders can expect delivery within 24 hours without MOQ requirement. If you are looking for switching power supply with high reliability, good quality, reasonable price and full series products, MEAN WELL, a total solution provider which can satisfy your various demands, is definitely your first choice!
KNX Introduction

What is KNX?
KNX is the only home and building control standard running global certification schemes.

The idea behind KNX is as simple as it is ingenious. KNX combines all main building functions like lighting, shutter control to heating, ventilation, security, energy management and more into one intelligent system. In this system, all devices communicate with one another via a single bus cable which is installed alongside the normal power lines. This means that all electrical functions are connected with one another via the bus system, which helps to lower operational costs resulting in considerable energy savings, to save installation time as well as to increase flexibility and adaptability to future developments.

Benefits
The MEAN WELL KNX system product is an intelligent solution for networking and controlling building technology. Since the targeted connections of devices and functions comply with the KNX standard, both living and working are not only becoming more convenient and secure, but also more energy-efficient and economical.

International Standard

**Safe**
Bus power (DC 20-31V)

**Convenience**
- Local
- Remote
- Cross-continental control

**Reliability**
- Certified by third party test laboratories
- Proven projects worldwide

**Dynamic**
- Easy to change
- Reset parameters instead of reinstallation
- Suitable for expanding

**Security**
- Freshness
- Data integrity
- Authentication
- Confidentiality

**Green**
- Building home automation
- Save energy

**Open**
- Interoperability
- Work with other system via the gateway

Indoor Lighting Control & Total Power Solution

The MEAN WELL KNX product range includes components covering the complete applications found in modern buildings, ranging from lighting and shutter control to heating, ventilation and many more. Furthermore, with over 35 years experience of the industrial power supply, MEAN WELL provides a variety of standard power supplies for all kinds of applications such as safety, surveillance, video, audio... etc.
LCM-KN series is an AC/DC constant current mode output LED driver series featuring the multiple levels selectable by dip switch and the KNX interface to avoid using the complicated KNX-DALI gateway. LCM-KN operates from 180~295VAC and offers different current levels ranging between 350mA and 1400mA.

Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -30°C~+90°C case temperature under free air convection. In addition, LCM-KN series is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.

**Features**

- KNX protocol
- Constant current mode output with multiple levels selectable by dip switch
- Support emergency light (EL)
- Constant lumen output
- Integrated KNX push button interface
- Synchronization up to 10 units
- Functions: manual dim, operation hours, log/linear curve selection
- 3 years warranty

**LCM-25/40/60KN**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Output</th>
<th>Io Tol.</th>
<th>Io Ripple</th>
<th>Effi.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCM-25KN</td>
<td>350mA<del>1050mA, 6</del>54V</td>
<td>±5%</td>
<td>5%(max)</td>
<td>86%</td>
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<tr>
<td>LCM-40KN</td>
<td>350mA<del>1050mA, 2</del>100V</td>
<td>±5%</td>
<td>5%(max)</td>
<td>90%</td>
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<tr>
<td>LCM-60KN</td>
<td>500mA<del>1400mA, 2</del>90V</td>
<td>±5%</td>
<td>5%(max)</td>
<td>91%</td>
</tr>
</tbody>
</table>
PWM Series

60~200W KNX Constant Voltage LED Driver

PWM-KN series is an AC/DC LED driver featuring the constant voltage mode with PWM style output controlled directly via KNX. The entire series is able to operate for -40°C~90 °C case temperature with its minimal dimming level low to 0.01% and user changeable output frequency up to 4KHz compliant IEEE 1789-2015 flickering requirement.

**Features**

- KNX protocol
- Constant Voltage PWM style output with user changeable frequency up to 4KHz
- Plastic housing with class II design
- Built-in active PFC function
- Standby power consumption <0.5W
- Typical lifetime >50000 hours
- Support KNX data secure (PWM-200KN only)
- Minimum dimming level 0.01%
- 5 years warranty

PWM-60/120/200KN

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<tr>
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</thead>
<tbody>
<tr>
<td>PWM-60-12</td>
<td>12V, 0~5A</td>
<td>±4%</td>
<td>86%</td>
</tr>
<tr>
<td>PWM-60-24</td>
<td>24V, 0~2.5A</td>
<td>±3%</td>
<td>89%</td>
</tr>
<tr>
<td>PWM-120-12</td>
<td>12V, 0~10A</td>
<td>±4%</td>
<td>88%</td>
</tr>
<tr>
<td>PWM-120-24</td>
<td>24V, 0~5A</td>
<td>±4%</td>
<td>90%</td>
</tr>
<tr>
<td>PWM-200-12</td>
<td>12V, 0~15A</td>
<td>±4%</td>
<td>92%</td>
</tr>
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<td>PWM-200-24</td>
<td>24V, 0~8.3A</td>
<td>±3%</td>
<td>93%</td>
</tr>
<tr>
<td>PWM-200-36</td>
<td>36V, 0~5.5A</td>
<td>±3%</td>
<td>94%</td>
</tr>
<tr>
<td>PWM-200-48</td>
<td>48V, 0~4.17A</td>
<td>±3%</td>
<td>94%</td>
</tr>
</tbody>
</table>

=KNX/KNBST  KN: KNX control technology ; KNBST: KNX control technology with BST14 connector
KAA Series
KNX Actuator

KNX Universal Actuator

Features
- 8 channel actuator in a compact size
- Suitable for various and mixed applications
- For AX, C-load, capacitive & inductive of loads
- Capacitive load 220μF
- Manual control via panel push button
- KNX data secure version available
- 3 years warranty

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Channel</th>
<th>Rating Current / Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAA-8R</td>
<td>8-Fold</td>
<td>16A</td>
</tr>
<tr>
<td>KAA-8R-10</td>
<td>8-Fold</td>
<td>10A</td>
</tr>
</tbody>
</table>

KNX Dimming Actuator

Features
- Dimming and switching LED driver and conventional electronic ballast
- Capacitive load 220μF
- Linear or logarithmic dimming curve programable via ETS software
- Programmable various time and scene function
- KNX data secure version available
- 3 years warranty

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Channel</th>
<th>Rating Current / Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAA-4R4V</td>
<td>4-Fold</td>
<td>16A</td>
</tr>
<tr>
<td>KAA-4R4V-10</td>
<td>4-Fold</td>
<td>10A</td>
</tr>
</tbody>
</table>

KAA-4R4V Wiring Examples

1. Non-dimmable Driver
2. DC 0-10V Driver
3. DC 1-10V Driver
KNX Series
640mA & 1280mA Bus Power Supply

640mA Bus Power Supply

KNX-20E-640 is a 640mA power supply with high efficiency and a small footprint of only 3SU (52.5 mm). The device has a KNX bus choke output and an additional output for ancillary power. LED indicators are used in normal operation, overload conditions and RESET operation. It is perfectly suitable to power up any products labeled with the KNX trademark. KNX-20E-640 is engineered to be a reliable and safe solution for KNX bus environment.

1280mA Bus Power Supply

KNX-40E-1280 is a 1280mA power supply with high efficiency and a small footprint of only 4SU (72mm). The device has a KNX bus choke output and an additional output for ancillary power. LED indicators are used in normal operation, overload conditions and RESET operation. It is perfectly suitable to power up any products labeled with the KNX trademark. KNX-40E-1280 is engineered to be a reliable and safe solution for KNX bus environment.

Features

- EIB / KNX power supply with integrated choke
- Compact size with 3SU/4SU width
- Safety extra low voltage (SELV)
- 180~264VAC input
- No load power consumption <0.5W
- Protections:
  - Short circuit / Overload(short-circuit-proof) /
  - Over voltage

<table>
<thead>
<tr>
<th>Model No.</th>
<th>V_{\text{out1}} (with choke)</th>
<th>V_{\text{out2}} (without choke)</th>
<th>I_{\text{out}} (I_{1}+I_{2})</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNX-20E-640</td>
<td>Bus, 30VDC</td>
<td>30VDC</td>
<td>640mA</td>
</tr>
</tbody>
</table>

- Cooling by free air convection
- Isolation class I
- LED indicator for normal operation, bus reset and bus overload
- Installed on DIN rail TS-35/7.5 or 15
- Over voltage category III
- Wide operating temperature: -30~+70°C

Table:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>V_{\text{out1}} (with choke)</th>
<th>V_{\text{out2}} (without choke)</th>
<th>I_{\text{out}} (I_{1}+I_{2})</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNX-40E-1280</td>
<td>Bus, 30VDC</td>
<td>30VDC</td>
<td>1280mA</td>
</tr>
</tbody>
</table>

☐ : Blank, D : Blank= Basic function, D=Diagnostic function
**Features**

- KNX to DALI Gateway/Controller
  - KNX to DALI-2 gateway
  - Two independent DALI Bus channels with built-in bus power supply (up to 250mA per bus)
  - Connect up to 2x64 DALI ECGs/Drivers
  - LCD display, LED indicators and buttons for local operation
  - Built-in 4x250/5A relay
  - Easy installation and configuration via PC software
  - Data backup and restoring, control via web browser

**How to use DLC-02**

- KNX gateway
- Commissioning the DLC-02 via web browser
- Local setting

**USB Interface**

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

**IP Router**

- KNX IP/TP routing
- Built-in web server
- KNX IP secure (optional)
- 3 years warranty

**Line Coupler**

- KNX TP Line coupler/Repeater
- Telegram filtering function
- Long messages support up to 240 byte APDU
- 3 years warranty
### HDR Series

**15~150W Ultra Slim Step Shape Power Supply**

#### Features
- Ultra slim design with 1SU~6SU width
- Universal input 85~264VAC (277VAC operational)
- No load power consumption < 0.3W
- Isolation class II
- Pass LPS (Limited power source)
- DC output voltage adjustable
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature: -30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category III
- LED indicator for power on
- 3 years warranty

#### HDR-15

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<td>HDR-15-5</td>
<td>5V, 0~2.40A</td>
<td>±2%</td>
<td>80mV</td>
<td>80%</td>
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<tr>
<td>HDR-15-12</td>
<td>12V, 0~1.25A</td>
<td>±1%</td>
<td>120mV</td>
<td>85%</td>
</tr>
<tr>
<td>HDR-15-15</td>
<td>15V, 0~1.00A</td>
<td>±1%</td>
<td>120mV</td>
<td>85.5%</td>
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<tr>
<td>HDR-15-24</td>
<td>24V, 0~0.63A</td>
<td>±1%</td>
<td>120mV</td>
<td>86%</td>
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<tr>
<td>HDR-15-48</td>
<td>48V, 0~0.32A</td>
<td>±1%</td>
<td>240mV</td>
<td>87%</td>
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#### HDR-30

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<tbody>
<tr>
<td>HDR-30-5</td>
<td>5V, 0~3.0A</td>
<td>±2%</td>
<td>80mV</td>
<td>82%</td>
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<tr>
<td>HDR-30-12</td>
<td>12V, 0~2.0A</td>
<td>±1%</td>
<td>120mV</td>
<td>88%</td>
</tr>
<tr>
<td>HDR-30-15</td>
<td>15V, 0~2.0A</td>
<td>±1%</td>
<td>120mV</td>
<td>89%</td>
</tr>
<tr>
<td>HDR-30-24</td>
<td>24V, 0~1.5A</td>
<td>±1%</td>
<td>150mV</td>
<td>89%</td>
</tr>
<tr>
<td>HDR-30-48</td>
<td>48V, 0~0.75A</td>
<td>±1%</td>
<td>240mV</td>
<td>90%</td>
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#### HDR-60

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<tr>
<td>HDR-60-5</td>
<td>5V, 0~6.5A</td>
<td>±2%</td>
<td>80mV</td>
<td>85%</td>
</tr>
<tr>
<td>HDR-60-12</td>
<td>12V, 0~4.5A</td>
<td>±1%</td>
<td>120mV</td>
<td>88%</td>
</tr>
<tr>
<td>HDR-60-15</td>
<td>15V, 0~2.0A</td>
<td>±1%</td>
<td>120mV</td>
<td>89%</td>
</tr>
<tr>
<td>HDR-60-24</td>
<td>24V, 0~1.5A</td>
<td>±1%</td>
<td>150mV</td>
<td>90%</td>
</tr>
<tr>
<td>HDR-60-48</td>
<td>48V, 0~0.75A</td>
<td>±1%</td>
<td>240mV</td>
<td>91%</td>
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#### HDR-100

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<tbody>
<tr>
<td>HDR-100-12</td>
<td>12V, 0~7.1A</td>
<td>±2%</td>
<td>120mV</td>
<td>88%</td>
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<tr>
<td>HDR-100-12N</td>
<td>12V, 0~7.5A</td>
<td>±2%</td>
<td>120mV</td>
<td>88%</td>
</tr>
<tr>
<td>HDR-100-15</td>
<td>15V, 0~6.13A</td>
<td>±1%</td>
<td>120mV</td>
<td>89%</td>
</tr>
<tr>
<td>HDR-100-15N</td>
<td>15V, 0~6.5A</td>
<td>±1%</td>
<td>120mV</td>
<td>89%</td>
</tr>
<tr>
<td>HDR-100-24</td>
<td>24V, 0~3.83A</td>
<td>±1%</td>
<td>150mV</td>
<td>90%</td>
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<tr>
<td>HDR-100-24N</td>
<td>24V, 0~4.2A</td>
<td>±1%</td>
<td>150mV</td>
<td>90%</td>
</tr>
<tr>
<td>HDR-100-48</td>
<td>48V, 0~1.92A</td>
<td>±1%</td>
<td>240mV</td>
<td>90%</td>
</tr>
<tr>
<td>HDR-100-48N</td>
<td>48V, 0~2.1A</td>
<td>±1%</td>
<td>240mV</td>
<td>90%</td>
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HDR-100: 92W max., pass LPS

HDR-100-xxN: 100W max., non-LPS with a wide output adjustable range

#### HDR-150

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<td>HDR-150-12</td>
<td>12V, 0~11.3A</td>
<td>±2%</td>
<td>100mV</td>
<td>89%</td>
</tr>
<tr>
<td>HDR-150-15</td>
<td>15V, 0~9.5A</td>
<td>±1%</td>
<td>120mV</td>
<td>89.5%</td>
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<tr>
<td>HDR-150-24</td>
<td>24V, 0~6.25A</td>
<td>±1%</td>
<td>150mV</td>
<td>90.5%</td>
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<tr>
<td>HDR-150-48</td>
<td>48V, 0~3.2A</td>
<td>±1%</td>
<td>200mV</td>
<td>90.5%</td>
</tr>
</tbody>
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**Dimensions**:  
HDR-15: L17.5xW90xD54.5mm  
HDR-30: L35xW90xD54.5mm  
HDR-60: L52.5xW90xD54.5mm  
HDR-100: L70xW90xD54.5mm  
HDR-150: L105xW90xD54.5mm
For service, repairs and telephone support, you can talk to one of our in-house employees. This ensures that you receive specialist advice. You won’t simply end up in a call center!