



For further information, please visit LED.lginnotek.com

LED Lighting

Product Catalogue 2015



19F Seoul Square 416, Hangangdae-ro, Jung-gu, Seoul, Korea **Contact:** ledlighting@lginnotek.com

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About LG Innotek

Corporate Overview

LG Innotek aims to become the partner of choice to its customers by providing the best possible customer value. Its six business domains range from materials and components to modules (Mobile, Automotive, LED, Display, Semiconductor and IoT), contributing to both forward and backward industries and to the growth of its client companies. Since its establishment, LG Innotek has devoted itself to technology R&D and effective market penetration to secure cutting-edge technologies and marketing power.

As a result, LG Innotek has firmly established itself as a globally competitive company. In fact, LG Innotek has sustained a sound growth rate of growth averaging 15 percent over the past four years. On top of that, the company has successfully expanded into new businesses, completing a sustainable business portfolio to maintain its leadership in the cutting-edge materials/components market by creating the highest customer value.







Establishment
August 22, 1970

CEO
Lee, Ung Beom

Global Network
(Sales Offices & Subsidiaries)
Domestic: 6 / Overseas: 17

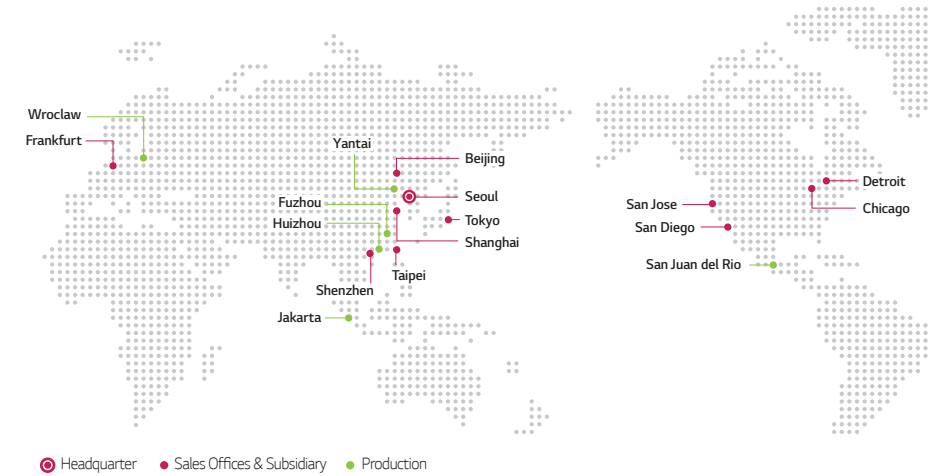
Website
www.lginnotek.com
LED.lginnotek.com

Business Area

| | | |
|---|--|--|
|  Mobile <ul style="list-style-type: none"> • Camera Module • Touch Panel • PCB (Build-up, RFPCB) • Wireless Power Charger • LED Flash / LED Package (BLU) |  Automotive <ul style="list-style-type: none"> • Motor & Sensor • Connectivity & ADAS • For xEV • Wireless Power Charger • Touch Panel • PCB • Thermoelectric Module • LED Lighting |  LED <ul style="list-style-type: none"> • Mobile/Display • Automotive • LED Lighting • UV LED |
|  Display <ul style="list-style-type: none"> • Photo Mask • Digital Tuner • Wi-Fi Module • Smart TV Camera • LED BLU |  IoT <ul style="list-style-type: none"> • Mobile Router • IP Network Camera • Wireless Modem (3G/4G) • Real Time Location System • Electronic Shelf Label |  Semiconductor <ul style="list-style-type: none"> • Flip Chip CSP • SIP • COF • COB (Smart IC) |

Global Network

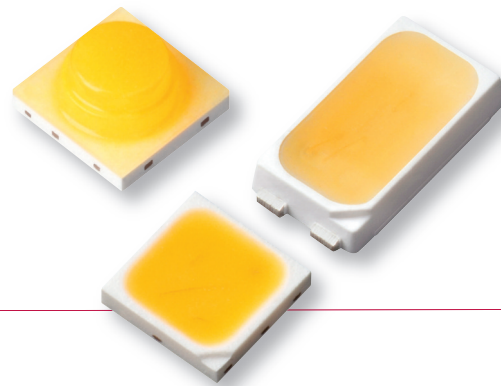
Domestic : 5 Workplaces, 1 Main R&D Center
Overseas : 6 Production Subsidiaries, 10 Sales Subsidiaries & Offices, 1 Subsidiary & R&D Center



Sales Offices

| Europe | Asia-Pacific | North America |
|--|---|---|
| <ul style="list-style-type: none"> • Frankfurt (Germany) Tel: +49-69-47861-6310 Email: hkkima@lginnotek.com | <ul style="list-style-type: none"> • Taipei (Taiwan) Tel: +886-2-2658-1001 Email: stanley@lginnotek.com • Tokyo (Japan) Tel: +81-3-3588-1944 Email: linuksang@lginnotek.com • Shanghai (China) Tel: +86-21-5058-4601 Email: ibbyoun@lginnotek.com • Beijing (China) Tel: +86-10-6439-0099 Email: gaojunhua@lginnotek.com • Shenzhen (China) Tel: +86-755-2396-0451 Email: thkimd@lginnotek.com | <ul style="list-style-type: none"> • San Jose (USA) Tel: +1-408-350-7661 Email: don@lginnotek.com • San Diego (USA) Tel: +1-858-805-6646 Email: bonami@lginnotek.com • Detroit (USA) Tel: +1-858-880-5833 Email: landon@lginnotek.com • Chicago (USA) Tel: +1-847-941-8712 Email: patrickkang@lginnotek.com |

Package_ Mid Power



5152 Series

5630 Series

6030 Series

7030 Series

3030N Series

3030S Series

Package_ Mid Power

5152 Series



Features

- Size(LxWxH): 5.1x5.2x0.9mm
- Viewing Angle: 120°
- LM80 Certified at 200mA, 105°C
- Junction Temperature: 120°C
- Thermal Resistance: 15° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| 5152 R | LEMWS51R80HZ21xx | 5000 | 2.7-3.0 | 65 | 28 | 150 | 80 |
| | LEMWS51R80LZ31xx | 3000 | | | 25.8 | | |
| 5152 G2 | LEMWS51R80HZ2Axx | 5000 | 2.7-3.0 | 65 | 31.3 | 150 | 80 |
| | LEMWS51R80LZ3Axx | 3000 | | | 29.1 | | |
| 5152 G3 | LEMWS51R80HZ2Bxx | 5000 | 2.7-3.0 | 65 | 33.3 | 150 | 80 |
| | LEMWS51R80LZ3Bxx | 3000 | | | 31 | | |

5630 Series



Features

- Size(LxWxH): 5.6x3.0x0.9mm
- Viewing Angle: 120°
- LM80 Certified at 200mA, 105°C
- Junction Temperature: 110°C
- Thermal Resistance: 15° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|-------------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| 5630 Q | LEMWS59Q80HZxxxx | 5000 | 2.8-3.2 | 65 | 25 | 150 | 80 |
| | LEMWS59Q80LZxxxx | 3000 | | | 23 | | |
| 5630 Q' | LEHWS59R80HZxxxx | 5000 | 2.8-3.2 | 65 | 28.2 | 150 | 80 |
| | LEHWS59R80LZxxxx | 3000 | | | 25.8 | | |
| 5630 G2 | LEMWS59R80HZ2Axx | 5000 | 2.7-3.0 | 65 | 31.3 | 200 | 80 |
| | LEMWS59R80LZ3Axx | 3000 | | | 29.1 | | |
| 5630 G3 | LEMWS59R80HZ2Bxx | 5000 | 2.7-3.0 | 65 | 33.3 | 200 | 80 |
| | LEMWS59R80LZ3Bxx | 3000 | | | 31 | | |
| NEW 5630 G4 | LEMWS59R80HZ2Dxx | 5000 | 2.7-3.0 | 65 | 34.9 | 200 | 80 |
| | LEMWS59R80LZ3Dxx | 3000 | | | 32.6 | | |
| High CRI | LEMWS59R80HZ2xxx | 5000 | 2.7-3.0 | 65 | 28.5 | 200 | 90 |
| | LEMWS59R80LZ3xxx | 3000 | | | 24.9 | | |

6030 Series



Features

- Size(LxWxH): 6.0x3.0x0.8mm
- Viewing Angle: 118°
- LM80 Certified at 240mA, 105°C
- Junction Temperature: 110°C
- Thermal Resistance: 12° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G1 | LEMWS68T80HZxxxx | 5000 | 2.8-3.2 | 130 | 52.8 | 240 | 80 |
| | LEMWS68T80LZxxxx | 3000 | | | 48.4 | | |

7030 Series



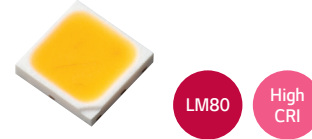
Features

- Size(LxWxH): 7.0x3.0x0.9mm
- Viewing Angle: 115°
- LM80 Certified at 280mA, 105°C
- Junction Temperature: 110°C
- Thermal Resistance: 12° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G1 | LEMWS73V80HZxxxx | 5000 | 2.8-3.2 | 200 | 84.6 | 280 | 80 |
| | LEMWS73V80LZxxxx | 3000 | | | 79.6 | | |

3030N Series



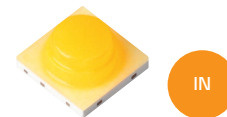
Features

- Size(LxWxH): 3.0x3.0x0.6mm
- Viewing Angle: 120°
- LM80 Certified at 200mA, 105°C
- Junction Temperature: 120°C
- Thermal Resistance: 7.5° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|-------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G1 | LEMWS36X80HZ21xx | 5000 | 5.8-6.6 | 150 | 122.6 | 200 | 80 |
| | LEMWS36X80LZ31xx | 3000 | | | 112.8 | | |
| G2 | LEMWS36X80HZ2Axx | 5000 | 5.8-6.6 | 150 | 130 | 200 | 80 |
| | LEMWS36X80LZ3Axx | 3000 | | | 119.6 | | |
| | Under Development | 5000 | 5.8-6.6 | 150 | 137 | 200 | 70 |
| | | 3000 | | | 126 | | |
| High CRI | Under Development | 5000 | 5.8-6.6 | 150 | 110.5 | 200 | 90 |
| | | 3000 | | | 102 | | |

3030S Series

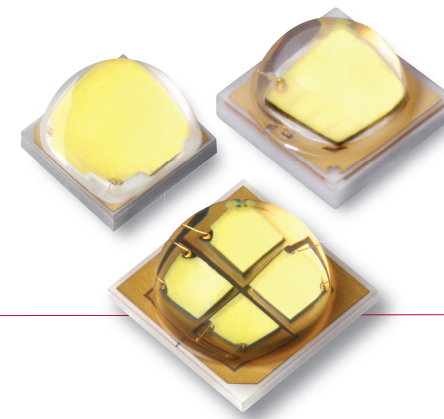


Features

- Size(LxWxH): 3.0x3.0x1.6mm
- Viewing Angle: 160°
- LM80 in Progress at 200mA, 105°C
- Junction Temperature: 120°C
- Thermal Resistance: 7.2° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|--------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G1 | LEMWS36X80HL | 5000 | 6.23 | 150 | 139 | 200 | 80 |
| | LEMWS36X80LL | 3000 | | | 133.9 | | |



Package_ High Power

- H35A0 Series
- H35F0 Series
- H35C Series
- H70E0 Series
- CSP Series

H35A0 Series



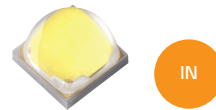
Features

- Size(LxWxH): 3.4x3.4x2.09mm
- Viewing Angle: 108°
- LM80 Certified at 700mA, 105°C
- Junction Temperature: 150°C
- Thermal Resistance: 7.5°C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|--------------------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| H35A0 (3535 1W) | LEMWA31X70HW10x0 | 5000 | 2.9-3.2 | 350 | 139 | 1,000 | 70 |
| | LEMWA31X80LW30x0 | 3000 | | | 107 | | 80 |

H35F0 Series



Features

- Size(LxWxH): 3.45x3.45x2.62mm
- Viewing Angle: 125°
- LM80 in Progress at 2,000mA, 105°C
- Junction Temperature: 150°C
- Thermal Resistance: 2.5° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|--------------------------------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| NEW H35F0 (3535 G4L) | LEMWE33X70HX10x0 | 5000 | 2.8-3.2 | 1,050 | 500 | 3,000 | 70 |
| | LEMWE33X70LX30x0 | 3000 | | | 455 | | 80 |
| | LEMWE33X80HX10x0 | 5000 | 2.8-3.2 | 1,050 | 470 | 3,000 | 80 |
| | LEMWE33X80LX30x0 | 3000 | | | 425 | | 80 |

H35C Series



Features

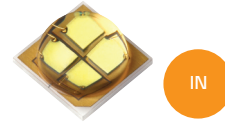
- Size(LxWxH): H35C0: 3.4x3.4x2.09mm
H35C1/H35C2: 3.4x3.4x2.37mm
- Viewing Angle: 120°
- Junction Temperature: 150°C
- Thermal Resistance: 6°C/W
- LM80 Certified at 1,250mA, 105°C

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|-------------------------------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| H35C0 (3515 G1) | LEMWA33X70HW10xA | 5000 | 2.9-3.2 | 350 | 152 | 1,500 | 70 |
| | LEMWA33X80LW30xA | 3000 | | | 125 | | 80 |
| H35C1 (3535 G2) | LEMWA33X70HX10x0 | 5000 | 2.8-3.2 | 350 | 162 | 1,500 | 70 |
| | LEMWA33X70LX30x0 | 3000 | | | 142 | | 80 |
| | LEMWA33X80HX10x0 | 5000 | 2.8-3.2 | 350 | 150 | 1,500 | 80 |
| | LEMWA33X80LX30x0 | 3000 | | | 131 | | 80 |
| | LEMWA33X90HX10x0 | 4000 | 2.8-3.2 | 350 | 135 | 1,500 | 90 |
| | LEMWA33X90LX30x0 | 3000 | | | 119 | | 90 |
| NEW H35C2 (3535 G4) | LEMWA33X70HX10xA | 5000 | 2.8-3.2 | 350 | 170 | 1,500 | 70 |
| | LEMWA33X70LX30xA | 3000 | | | 148 | | 80 |
| | LEMWA33X80HX10xA | 5000 | 2.8-3.2 | 350 | 158 | 1,500 | 80 |
| | LEMWA33X80LX30xA | 3000 | | | 145 | | 80 |
| | LEMWA33X90HX10xA | 4000 | 2.8-3.2 | 350 | 142 | 1,500 | 90 |
| | LEMWA33X90LX30xA | 3000 | | | 125 | | 90 |

Package_ High Power

H70E0 Series



Features

- Size(LxWxH): 7.0x7.0x3.88mm
- Viewing Angle: 135°
- LM80 in Progress at 700mA, 105°C
- Junction Temperature: 150°C
- Thermal Resistance: 6° C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| NEW 7070 | LEMWA77670HX10x0 | 5000 | 11.0-12.5 | 700 | 1,210 | 1,250 | 70 |
| | LEMWA77680LX30x0 | 3000 | | | 971 | | 80 |

Package_ High Power

CSP* Series (*Chip Scale Package)

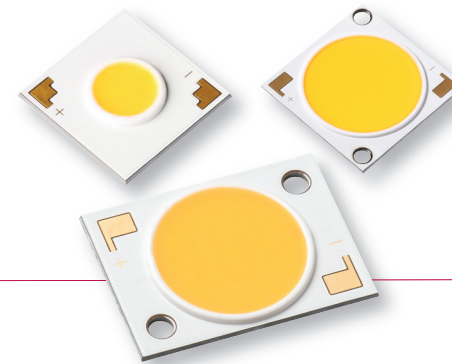


Features

- Size(LxWxH): 1.5x1.5x0.55mm
1.8x1.8x0.55mm
- Concept Product
- Junction Temperature: 145°C

Specifications

| Product | Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|-------------|----------|-------------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| Concept CSP | 1515 | Under Development | 4000 | 2.8-3.2 | 350 | 155 | 700 | 80 |
| | 1818 | Under Development | 4000 | 2.8-3.2 | 350 | 161 | 900 | 80 |



Package_ COB (Chip On Board)

4W COB Series (Small LES)

7W COB Series (Small LES)

10W, 13W, 17W, 24W COB Series

40W COB Series

60W COB Series

Package_COB

4W COB Series (Small LES)



Features

- **Size(LxWxH):** 14x14x1.45mm
LES: 8.5mm Small LES: 6.5mm
- **Viewing Angle:** 115°
- **Junction Temperature:** 150°C
- **Thermal Resistance:** 3.5°C/W
- **LM80 Certified at 173mA, 105°C**

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|-----------|-----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G1 | LEMWWM11375HZxx | 5000 | 9~10 | 400 | 448 | 500 | 80 |
| | LEMWWM11380LZxx | 3000 | | | 430 | | |
| Small LES | LEMWWM16380HZxx | 5000 | 34 ~ 38 | 105 | 507 | 210 | 80 |
| | LEMWWM16380LZxx | 3000 | | | 471 | | |

Package_COB

7W COB Series (Small LES)



Features

- **Size(LxWxH):** 14x14x1.45mm
LES: 9.5mm Small LES: 6.5mm
- **Viewing Angle:** 115°
- **Junction Temperature:** 150°C
- **Thermal Resistance:** 2.7°C/W
- **LM80 Certified at 346mA, 105°C**

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|-----------|-----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G2 | LEMWWM11580HZxx | 5000 | 34~38 | 195 | 927 | 390 | 80 |
| | LEMWWM11580LZxx | 3000 | | | 878 | | |
| Small LES | LEMWWM16480HZxx | 5000 | 34 ~ 38 | 195 | 877 | 390 | 80 |
| | LEMWWM16480LZxx | 3000 | | | 814 | | |

Package_COB

10W, 13W, 17W, 24W COB Series



Features

- **Size(LxWxH):** 18x24.4x1.45mm
LES: 14.5mm
- **Viewing Angle:** 116°
- **LM80 Certified at 520mA(10W) / 680mA(13W) / 940mA(17W) / 1,280mA(24W), 105°C**
- **Junction Temperature:** 150°C (24W: 140°C)
- **Thermal Resistance:** 1.7/1.3/1.1/0.9° C/W
(10/13/17/24W)

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|-----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| 10W G2 | LEMWWM18580HGxx | 5000 | 34~38 | 260 | 1,318 | 520 | 80 |
| | LEMWWM18580LGxx | 3000 | | | 1,224 | | |
| 13W G2 | LEMWWM18680HGxx | 5000 | 34 ~ 38 | 340 | 1,694 | 680 | 80 |
| | LEMWWM18680LGxx | 3000 | | | 1,571 | | |
| 17W G2 | LEMWWM18780HGxx | 5000 | 34~38 | 470 | 2,265 | 940 | 80 |
| | LEMWWM18780LGxx | 3000 | | | 2,097 | | |
| 24W G2 | LEMWWM18880HGxx | 5000 | 34 ~ 38 | 640 | 3,024 | 1,280 | 80 |
| | LEMWWM18880LGxx | 3000 | | | 2,787 | | |

40W COB Series



Features

- **Size(LxWxH):** 28x28x1.45mm
LES: 22mm
- **Viewing Angle:** 116°
- **Junction Temperature:** 140°C
- **Thermal Resistance:** 0.6°C/W
- **LM80 Certified at 2,080mA, 105°C**

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G2 | LEMWM28C80HZxx | 5000 | 34~38 | 1040 | 5,140 | 2,080 | 80 |
| | LEMWM28C80LZxx | 3000 | | | 4,755 | | |

60W COB Series

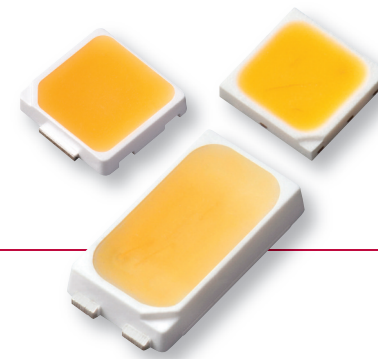


Features

- **Size(LxWxH):** 28x28x1.45mm
LES: 22mm
- **Viewing Angle:** 116°
- **Junction Temperature:** 140°C
- **Thermal Resistance:** 0.4°C/W
- **LM80 Certified at 2,080mA, 105°C**

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| G2 | LEMWM28Z80HZxx | 5000 | 52-56 | 1040 | 7,776 | 2,080 | 80 |
| | LEMWM28Z80LZxx | 3000 | | | 7,290 | | |



Package_ High Voltage

5250HV Series

5630HV Series

3030N HV Series

3030S HV Series

5250 HV Series



Features

- Size(LxWxH): 5.2x5.0x0.9mm
- Viewing Angle: 120°
- LM80 Certified at 42mA (32V), 20mA (67V) 105°C
- Junction Temperature: 125°C
- Thermal Resistance: 14°C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| 32V | LEHWH51W80HHxx | 5000 | 29.5-34.5 | 42 | 177 | 50 | 80 |
| | LEHWH51W80LHxx | 3000 | | | 163 | | |
| 67V | LEHWH51Y80HHxx | 5000 | 68.5-69.5 | 20 | 167 | 25 | 80 |
| | LEHWH51Y80LHxx | 3000 | | | 155 | | |

5630 HV Series



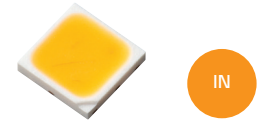
Features

- Size(LxWxH): 5.6x3.0x0.9mm
- Viewing Angle: 120°
- LM80 Certified at 25mA, 105°C
- Junction Temperature: 125°C
- Thermal Resistance: 14°C/W

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| 22V | LEHWH59280HHxx | 5000 | 20-24 | 20 | 60.5 | 25 | 80 |
| | LEHWH59280LHxx | 3000 | | | 57 | | |

3030N HV Series



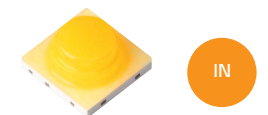
Features

- Size(LxWxH): 3.0x3.0x0.6mm
- Viewing Angle: 120°
- LM80 in Progress at 42mA (32V), 20mA (67V) 105°C
- Junction Temperature: 125°C
- Thermal Resistance: 15°C/W(67V), 17°C/W(32V)

Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| 32V | LEHWH36380HHxx | 5000 | 29.5-34.5 | 42 | 162 | 50 | 80 |
| | LEHWH36380LHxx | 3000 | | | 145 | | |
| 67V | LEHWH36680HHxx | 5000 | 63.0-71.5 | 20 | 158 | 25 | 80 |
| | LEHWH36680LHxx | 3000 | | | 137 | | |

3030S HV Series



Features

- Size(LxWxH): 3.0x3.0x1.6mm
- Viewing Angle: 160°
- LM80 in Progress at 40mA, 105°C
- Junction Temperature: 125°C
- Thermal Resistance: 14° C/W

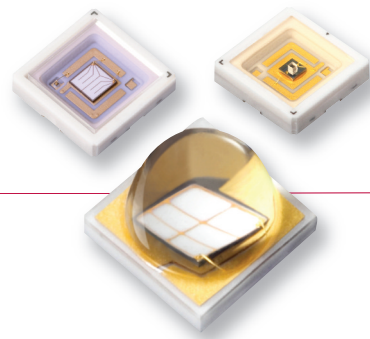
Specifications

| Category | Part Number | CCT (K) | Forward Voltage (V) | Forward Current (mA) | Luminous Flux (lm) | Maximum Current (mA) | CRI |
|----------|----------------|---------|---------------------|----------------------|--------------------|----------------------|-----|
| NEW 22V | LEHWH30380HHxx | 5000 | 22 | 40 | 111 | 50 | 80 |
| | LEHWH30380LLxx | 3000 | | | 103 | | |

Package_ UV LED

UV-A Package

UV-C Package



Package_ UV LED

UV-A Package

Features

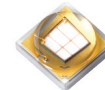
- High Performance UV-A LED Packages
- Application: Curing System, Exposure Machine, Photo Catalysis

3528 1in1 Series



| Category | Part Number | Optic Characteristics | | Forward Current (mA) | Forward Voltage (V) | Beam Angle (Degree) | Rth (Tj-s) |
|-----------|----------------|-----------------------|--------------------|----------------------|---------------------|---------------------|------------|
| | | Wavelength (nm) | Optical Power (mW) | | | | |
| 3528 1in1 | LEUVS33G10TZ00 | 385 | 11 | 20 | 3.4 | 130 | 48.3 |

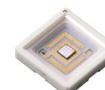
3535 1in1 Series



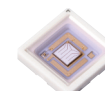
| Category | Part Number | Optic Characteristics | | Forward Current (mA) | Forward Voltage (V) | Beam Angle (Degree) | Rth (Tj-s) |
|------------------|----------------|-----------------------|--------------------|----------------------|---------------------|---------------------|------------|
| | | Wavelength (nm) | Optical Power (mW) | | | | |
| 3535 1in1 Normal | LEUVA33T00RL00 | 365 | 800 | 500 | 3.6 | 120 | 4.5 |
| | LEUVA33U70TL00 | 385 | 910 | | 3.5 | 130 | |
| | LEUVA33U70UL00 | 395 | 1,000 | | 3.5 | 130 | |
| 3535 1in1 Narrow | LEUVA33T00VL00 | 405 | 1,000 | 500 | 3.6 | 45 | 4.5 |
| | LEUVA35T01RL00 | 365 | 875 | | | | |
| | LEUVA35T01TL00 | 385 | 1,000 | | 3.5 | 55 | |
| | LEUVA35T01UL00 | 395 | 1,000 | | | | |
| LEUVA35T01VL00 | 405 | 1,000 | | | | | |



6060 1in1 Series

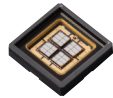


| Category | Part Number | Optic Characteristics | | Forward Current (mA) | Forward Voltage (V) | Beam Angle (Degree) | Rth (Tj-s) | |
|----------------|----------------|-----------------------|--------------------|----------------------|---------------------|---------------------|------------|-----|
| | | Wavelength (nm) | Optical Power (mW) | | | | | |
| 6060 1in1 G1 | LEUVA66R40RV00 | 365 | 670 | 500 | 3.6 | 115 | 4.5 | |
| | | 385 | 910 | 700 | | | | |
| | | 395 | 800 | 500 | | | | |
| | | LEUVA66U00TV00 | 405 | 1,080 | 700 | | | 3.5 |
| | | | 365 | 800 | 500 | | | |
| | | | 385 | 1,080 | 700 | | | |
| LEUVA66U40VV00 | LEUVA66R40VV00 | 395 | 800 | 500 | | | | |
| | | 405 | 1,080 | 700 | | | | |
| 6060 1in1 H1 | LEUVA66X00RV00 | 365 | 2,060 | 1,500 | 3.7 | 120 | 4.3 | |
| | | 385 | 2,230 | | 3.6 | | 5 | |
| | | 395 | 2,230 | | | | | |
| | | TBD | 405 | | 2,230 | | | |



UV-A Package

6868 4 in1 Series



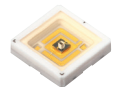
| Category | Part Number | Optic Characteristics | | Forward Current (mA) | Forward Voltage (V) | Beam Angle (Degree) | Rth (Tj-s) |
|---------------|----------------|-----------------------|--------------------|----------------------|---------------------|---------------------|------------|
| | | Wavelength (nm) | Optical Power (mW) | | | | |
| 6868 4 in1 | LEUVA77X40RV00 | 365 | 2,700 | 500 | 14.9 | 115 | 1.5 |
| | | | 3,670 | 700 | | | |
| | LEUVA77Z10TV00 | 385 | 3,200 | 500 | 14.8 | 110 | 2 |
| | | | 4,350 | 700 | | | |
| | LEUVA77Z30UV00 | 395 | 3,200 | 500 | 14.8 | 110 | 2 |
| 4,350 | | | 700 | | | | |
| LEUVA77X40W00 | 405 | 3,200 | 500 | 14.8 | 110 | 2 | |
| | | | 4,350 | 700 | | | |

UV-C Package

Features

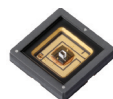
- High Efficient UV-C LED Packages
- Application: Air/Water Purification, Air/Water Sterilization

6060 1in1Series



| Category | Part Number | Optic Characteristics | | Forward Current (mA) | Forward Voltage (V) | Beam Angle (Degree) | Rth (Tj-s) |
|-----------|----------------|-----------------------|--------------------|----------------------|---------------------|---------------------|------------|
| | | Wavelength (nm) | Optical Power (mW) | | | | |
| 6060 1in1 | LEUVA66B00HF00 | 278 | 2 | 20 | 6.3 | 120 | 37 |

6868 1in1Series



| Category | Part Number | Optic Characteristics | | Forward Current (mA) | Forward Voltage (V) | Beam Angle (Degree) | Rth (Tj-s) |
|-----------|----------------|-----------------------|--------------------|----------------------|---------------------|---------------------|------------|
| | | Wavelength (nm) | Optical Power (mW) | | | | |
| 6868 1in1 | LEUVA77G00HF00 | 275 | 10 | 100 | 6.5 | 124 | 32 |

Solution Partners

Optical Solutions

| Optic | Partner 1 | Partner 2 | Partner 3 |
|-------|------------------------|------------------------|-----------------|
| | BOEIM | BOEIM | Any Casting |
| | KHATOD Optoelectronics | KHATOD Optoelectronics | Fraen Optics |
| | LedLink | LedLink | BICOM |
| | LEDiL | LEDiL | Carclo - Optics |
| | Widegerm Lighting Ltd. | Widegerm Lighting Ltd. | SMT |
| | LEDnLight | LEDnLight | |

Thermal Solutions

| Heat sink | Partner 1 | Partner 2 | Partner 3 |
|-----------|-------------------|-------------------|----------------------------|
| | NUVENTIX | Nuventix | Widegerm |
| | UNIQUEST | Uniquet | Sunon |
| | MechaTronix | Mecha Tronix | CeramTec |
| | COOL | Coolone | Advanced Thermal Solutions |
| | Fisher Elektronik | Fisher Elektronik | Sarnikon |
| | Wisefull | Wisefull | |

TIM

| | | | |
|--------------------|---------------------|-------------------|-----------------------|
| COOLTTM | TTM | BERGQUIST COMPANY | The Bergquist Company |
| Laird Technologies | Laird Technologies | DOW CORNING | Dow Corning |
| t-global | T-Global Technology | SILICONE VALLEY | Silicone Valley |
| MOMENTIVE | Momentive | | |

Electrical Solutions

| Holder | Partner 1 | Partner 2 | Partner 3 |
|--------|------------------------------------|--------------|------------------|
| | AAG STUCCHI Essential for lighting | AAG.STUCCHI | TE Connectivity |
| | BJB | BJB | IDEAL Industries |
| | molex | Molex | Lumigea |
| | BENDER+WIRTH | Bender+Wirth | DARKOO 达尔科 |

Driver

| | | | |
|-------------------|--------------------|-----------|------------------------------------|
| ORIENTECH (주)오리엔텍 | Orientech | PHIHONG | Phihong |
| Silicon Works | Silicon Works | TenPao | Tenpao Group International Limited |
| de | Dongdo Electronics | MagnaChip | Magna Chip |
| IML | IML | | |

Module·Engine

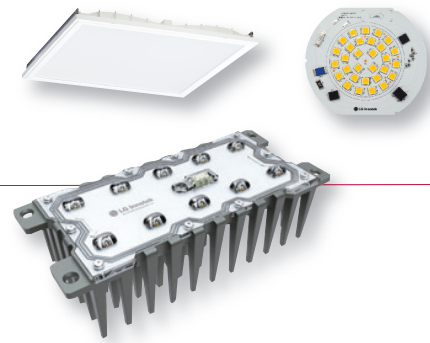
AC Direct Module

Flat Light Array

ReflectA Free

Eagle Eye

Outdoor Square Module



Module · Engine

AC Direct Module

Bulb Module

Features

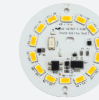
- High Reliable Performance
- Surge Protection Board Included
- High EMI Protection



6W



9W



12W

Specifications

| Type | Model Number | CCT(K) | Luminous Flux (lm) | Module Efficacy (lm/W) | CRI | Power Consumption(W) | Input Voltage (V) | Module Size (mm) |
|------|-----------------|--------|--------------------|------------------------|-----|----------------------|-------------------|------------------|
| Bulb | LLBML04-06C601A | 5000 | 600 | 105 | 80 | 6 | 220 | ø48 |
| | LLBML04-06C201A | 3000 | 540 | 95 | | | | |
| | LLBML04-09C601A | 5000 | 900 | 106 | 80 | 9 | 220 | ø48 |
| | LLBML04-09C201A | 3000 | 810 | 95 | | | | |
| | LLBML04-12C601A | 5000 | 1,200 | 104 | 80 | 12 | 220 | ø48 |
| | LLBML04-12C201A | 3000 | 1,080 | 94 | | | | |

Downlight Module

Features

- Easy Installation (Connect type)
- Improvement of Light Uniformity
- High Surge Protection(1.5kV)



850lm



1150lm



2300lm

Specifications






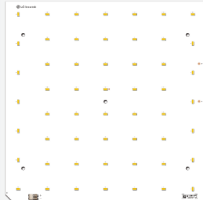
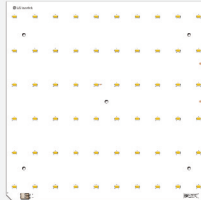
| Type | Model Number | CCT(K) | Luminous Flux (lm) | Module Efficacy (lm/W) | CRI | Power Consumption(W) | Input Voltage (V) | Module Size (mm) |
|-----------|-----------------|--------|--------------------|------------------------|-----|----------------------|-------------------|------------------|
| Downlight | LLDMLR6-00A601x | 5000 | 960 | 108 | 80 | 9 | 120/220 | ø65 |
| | LLDMLR6-00A201x | 3000 | 850 | 96 | | | | |
| | LLDMLR7-10A601x | 5000 | 1,360 | 112 | 80 | 12 | 120/220 | ø72 |
| | LLDMLR7-10A201x | 3000 | 1,180 | 98 | | | | |
| | LLDMLR9-20A601x | 5000 | 2,750 | 117 | 80 | 23 | 120/220 | ø88 |
| | LLDMLR9-20A201x | 3000 | 2,450 | 104 | | | | |

Flat Light Array

Features

- LED Reliability (Lifetime of 50,000hrs, LM80)
- Design Flexibility
- Future-proof
- Quality of Light (>CRI 80, 3SDCM)
- Interchangeability through Global Standard Form Factor
- CCT : 3000K, 4000K, 5000K

Product Line-up

| Form Factor | Size (mm) | Type | Product / Luminous Flux |
|-------------|-----------|--------|--|
| Linear | 280x20 | CELM-1 |  1100lm |
| | | CELM-2 |  800lm |
| | 280x40 | CELM-3 |  1100lm |
| | | CELM-4 |  1200lm |
| | 560x40 | CELM-5 |  2500lm |
| Square | 270x270 | CESM-1 |  1500lm (SM-1) |
| | | CESM-2 |  4000lm (SM-2) |

Specifications

| Form Factor | Size | Model Number | CCT (K) | Luminous Flux (lm) | Module Efficacy (lm/W) | CRI | Power Consumption (W) | Input Current (mA) | Input Voltage (V) |
|-----------------|--------|-----------------|---------|--------------------|------------------------|-----|-----------------------|--------------------|-------------------|
| Linear | CELM-1 | LLFML31-11K601C | 5000 | 1,080 | 110 | >80 | 10 | 380 | 25.6 |
| | | LLFML31-11K401C | 4000 | 1,080 | 110 | | | | |
| | | LLFML31-11K301C | 3500 | 1,040 | 105 | | | | |
| | | LLFML31-11K201C | 3000 | 1,030 | 104 | | | | |
| | CELM-2 | LLFML31-08L601A | 5000 | 800 | 110 | >80 | 7.3 | 190 | 38.4 |
| | | LLFML31-08L401A | 4000 | 800 | 110 | | | | |
| | | LLFML31-08L301A | 3500 | 780 | 105 | | | | |
| | CELM-3 | LLFML31-08L201A | 3000 | 770 | 104 | >80 | 10 | 380 | 25.6 |
| | | LLFML31-10K601A | 5000 | 1,080 | 110 | | | | |
| | | LLFML31-10K401A | 4000 | 1,080 | 110 | | | | |
| | CELM-4 | LLFML31-10K301A | 3500 | 1,040 | 105 | >80 | 10.9 | 380 | 28.7 |
| | | LLFML31-10K201A | 3000 | 1,030 | 104 | | | | |
| | | LLFML31-10K601B | 5000 | 1,210 | 110 | | | | |
| | | LLFML31-10K401B | 4000 | 1,210 | 110 | | | | |
| | CELM-5 | LLFML31-10K301B | 3500 | 1,170 | 105 | >80 | 21.9 | 570 | 38.4 |
| LLFML31-10K201B | | 3000 | 1,160 | 104 | | | | | |
| LLFML61-22L601A | | 5000 | 2,430 | 110 | | | | | |
| LLFML61-22L401A | | 4000 | 2,430 | 110 | | | | | |
| Square | CESM-1 | LLFML61-22L301A | 3500 | 2,350 | 105 | >80 | 13.3 | 462 | 28.8 |
| | | LLFML61-22L201A | 3000 | 2,330 | 104 | | | | |
| | | LLFML33-13K601A | 5000 | 1,480 | 110 | | | | |
| | CESM-2 | LLFML33-13K401A | 4000 | 1,480 | 110 | >80 | 36.5 | 760 | 48 |
| | | LLFML33-13K301A | 3500 | 1,450 | 105 | | | | |
| | | LLFML33-13K201A | 3000 | 1,430 | 104 | | | | |
| | | LLFML33-37M601A | 5000 | 4,100 | 110 | | | | |
| | | LLFML33-37M401A | 4000 | 4,100 | 110 | | | | |
| LLFML33-37M301A | 3500 | 3,930 | 105 | | | | | | |
| LLFML33-37M201A | 3000 | 3,900 | 104 | | | | | | |

ReflectA Free



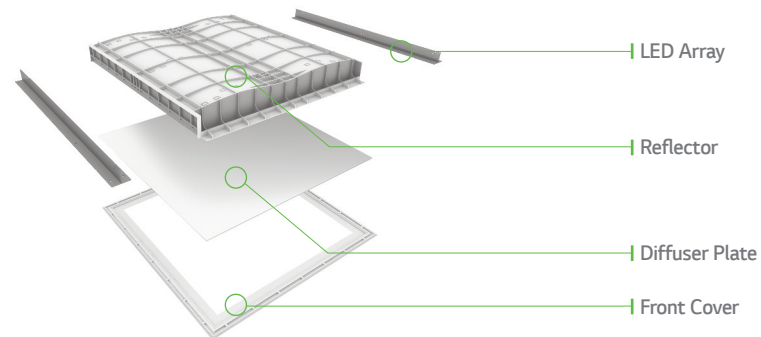
Features

- Innovative Technology without Light Guide Plate
- Excellent Uniformity in Slim Profile and Low Weight
- Higher Performance
- Lower UGR (< 19) Version Available

Product Line-up



Business Model



Specifications

| Product | Category | Model Number | CCT (K) | Luminous Flux (lm) | Module Efficacy (lm/W) | CRI | Power Consumption (W) | Input Current (mA) | Input Voltage (V) | Mac Adam Step |
|----------------|----------------|-----------------|---------|--------------------|------------------------|-----|-----------------------|--------------------|-------------------|---------------|
| 1' x 4' | Gen1 | LLFMLC3-38K608A | 5000 | 3,296 | 97 | >80 | 34 | 1,040 | 29-32 | 4.5 SDCM |
| | | LLFMLC3-38K408A | 4000 | 3,200 | 94.1 | | | | | |
| | | LLFMLC3-38K308A | 3500 | 3,150 | 92.6 | | | | | |
| 2' x 4' | Gen1 | LLFMLC6-52K608A | 5000 | 4,700 | 88.6 | >80 | 50 | 1,560 | 29-32 | 4.5 SDCM |
| | | LLFMLC6-52K408A | 4000 | 4,650 | 87.6 | | | | | |
| | | LLFMLC6-52K308A | 3500 | 4,600 | 86.7 | | | | | |
| Gen1' (80LED) | | LLFML66-38K601G | 5000 | 3,580 | 113 | >80 | 32 | 1,040 | 26-34 | 4.5 SDCM |
| | | LLFML66-38K401G | 4000 | 3,440 | 108 | | | | | |
| | | LLFML66-38K201G | 3000 | 3,370 | 106 | | | | | |
| Gen1' (100LED) | | LLFML66-38K601H | 5000 | 3,670 | 118 | >80 | 32 | 1,040 | 26-34 | 4.5 SDCM |
| | | LLFML66-38K401H | 4000 | 3,520 | 114 | | | | | |
| | | LLFML66-38K201H | 3000 | 3,430 | 111 | | | | | |
| 2' x 2' | Gen1' (120LED) | LLFML66-38K601J | 5000 | 5,380 | 113 | >80 | 48 | 1,560 | 26-34 | 4.5 SDCM |
| | | LLFML66-38K401J | 4000 | 5,160 | 108 | | | | | |
| | | LLFML66-38K201J | 3000 | 4,925 | 103 | | | | | |
| Gen 2 | | LLFML55-38K403D | 4000 | 3,500 | 109 | >80 | 31.2 | 1,040 | 28-33 | 5 SDCM |
| | | LLFML55-38K203D | 3000 | 3,300 | 106 | | | | | |
| | | LLFML55-38K404F | 4000 | 3,010 | 96 | | | | | |
| Gen 2 (UGR) | | LLFML55-38K403E | 4000 | 3,250 | 104 | >80 | 31.2 | 1,040 | 28-33 | 5 SDCM |
| | | LLFML55-38K203E | 3000 | 3,160 | 101 | | | | | |

Eagle Eye



Features

- Slim and Unique Round Design
- High Reliability for Outdoor Conditions(IP67)
- Future-proof Design
- 5 Different Beam Angle Lenses
- Integrated LED Array, Lens and Front Cover

Specifications

| Lens Type (Beam Angle) | Model Number | CCT (K) | Luminous Flux (lm) | Module Efficacy (lm/W) | CRI | Power Consumption (W) | Input Current (mA) | Input Voltage (V) |
|--------------------------|-----------------|---------|--------------------|------------------------|-----|-----------------------|--------------------|-------------------|
| Type II (H:160, V:70°) | LLDMAW1-18K701A | 5700 | 1,890 | 110 | >70 | 17.1 | 700 | 24.5 |
| | LLDMAW1-18K201A | 3000 | 1,550 | 91 | >80 | | | |
| Type III (H:135°, V:60°) | LLDMAW1-18K702A | 5700 | 2,030 | 118 | >70 | 17.1 | 700 | 24.5 |
| | LLDMAW1-18K202A | 3000 | 1,650 | 97 | >80 | | | |
| Type V (Square 130°) | LLDMAW1-18K703A | 5700 | 1,990 | 116 | >70 | 17.1 | 700 | 24.5 |
| | LLDMAW1-18K203A | 3000 | 1,630 | 95 | >80 | | | |
| Type V (Circle 130°) | LLDMAW1-18K704A | 5700 | 2,000 | 117 | >70 | 17.1 | 700 | 24.5 |
| | LLDMAW1-18K204A | 3000 | 1,630 | 95 | >80 | | | |
| Type V (Circle 100°) | LLDMAW1-18K705A | 5700 | 2,020 | 119 | >70 | 17.1 | 700 | 24.5 |
| | LLDMAW1-18K205A | 3000 | 1,620 | 95 | >80 | | | |

Lens Information

| Lens Type | Type II (H:160, V:70°) | Type III (H:135°, V:60°) | Type V (Square 130°) | Type V (Circle 130°) | Type V (Circle 100°) |
|-----------------|------------------------|--------------------------|--|----------------------|----------------------|
| Lens Image | | | | | |
| Horizontal View | | | | | |
| Vertical View | | | | | |
| Application | Street Lighting | | Security, Parking Lot, Canopy Lighting | | |

Outdoor Square Module



Features

- High Reliability for Outdoor Conditions(IP67)
- 3 Different Beam Angle Optic Lenses
- Easy Maintenance and Sustainable Design

Specifications

| Lens Type | Model Number | CCT (K) | Luminous Flux (lm) | Module Efficacy (lm/W) | CRI | Power Consumption (W) | Input Current (mA) | Input Voltage (V) |
|-------------------|-----------------|---------|--------------------|------------------------|-----|-----------------------|--------------------|-------------------|
| Street (Type A/B) | LLRMAE6-25L701A | 5700 | 2,430 | 113 | >75 | 21.5 | 700 | 30 |
| | LLRMAE6-25L401A | 4000 | 2,400 | 111 | >70 | | | |
| Street (Type C) | LLRMAE6-25L702A | 5700 | 2,430 | 113 | >75 | 21.5 | 700 | 30 |
| | LLRMAE6-25L402A | 4000 | 2,400 | 111 | >70 | | | |
| Tunnel | LLRMAE6-25L705A | 5700 | 2,430 | 113 | >75 | 21.5 | 700 | 30 |
| | LLRMAE6-25L405A | 4000 | 2,400 | 111 | >70 | | | |

Light Distribution

| Lens Type | Street (Type A / B) | Street (Type C) | Tunnel |
|-------------------------|---------------------|-----------------|--------|
| Intensity Distributions | | | |

LED Driver



Downlight Driver

Flat Driver

Tube Driver

Outdoor Driver

Wireless Bulb Driver

Wireless Lighting Control Solution

LED Driver

Downlight Driver



Features & Benefits

| Features | Benefits |
|---|---|
| <ul style="list-style-type: none"> Adjustable Output Current Dimming Method: 0-10V, ZigBee, TRIAC Multiplex Communication System | <ul style="list-style-type: none"> SELV Output Voltage Active Power Factor Correction 50,000hrs Lifetime |
| <ul style="list-style-type: none"> Compatibility with Diverse LED Modules Multiple Dimming Scheme Wireless Controllability | <ul style="list-style-type: none"> Compliant SELV LED Drivers Multiple Luminaires per line Excellent Reliability |

Product List

Note: 1. **U**: Under Development 2. **P**: Programmable

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|-----------------------|-----------|---------------|-------------|---------------------|-----------------|-----|----------------|---------------------|---------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| PIDN-J009A | 9 | 30-36 | 0.25 | 110-130 | TRIAC | 0.9 | Typ. 80 | 75*71*27 | cUL |
| PIDA-Z210B | 9 | 33-42 | 0.21 | 220-240 | - | 0.9 | Min. 80 | 74*60*34 | KC, CE |
| PIDA-C201A | 9 | 36-42 | 0.21 | 120-277 | TRIAC | 0.9 | Min. 78 | 74*60*34 | CE, cUL |
| PIDK-L011W | 10 | 23-25 | 0.4 | 120-277 | 0-10V, ZigBee | 0.9 | Typ. 83 | 161*97*42 | - |
| PIDB-L213W | 11 | 25-28 | 0.4 | 100-240 | 0-10V, ZigBee | 0.9 | Min. 80 | 155*84*33 | KC |
| PIDN-J013A | 13 | 30-36 | 0.36 | 110-130 | TRIAC | 0.9 | Typ. 80 | 75*71*27 | cUL |
| PIDB-Z210B | 13 | 33-42 | 0.32 | 220-240 | - | 0.9 | Min. 80 | 74*60*34 | KC, CE |
| PCIB-Z102B | 16 | 25-31 | 0.54 | 230-277 | - | 0.9 | Min. 82 | 71*60*16 | - |
| PCIB-Z102A | 16 | 27-31 | 0.54 | 230-277 | - | 0.9 | Min. 82 | 71*60*18 | - |
| PIDK-L024W | 20 | 23-25 | 0.4/0.6/0.8 | 120-277 | 0-10V, ZigBee | 0.9 | Typ. 85 | 161*97*42 | - |
| PIDB-L223W | 20 | 28-31 | 0.64 | 100-240 | 0-10V, ZigBee | 0.9 | Min. 80 | 155*84*33 | KC |
| U PIDN-T025A | 25 | 12-36 | 0.7 | 120-277 | 0-10V | 0.9 | Min. 82 | 62*96*30 | - |
| PIDK-L033W | 28 | 26-31 | 0.94 | 220-240 | 0-10V, ZigBee | 0.9 | Min. 80 | 155*84*33 | KC |
| PIDC-L233A | 28 | 30-33 | 0.86 | 120-277 | 0-10V | 0.9 | Min. 81 | 122*76*34 | - |
| PIDK-L040W | 35 | 23-25 | 1.0/1.2/1.4 | 120-277 | 0-10V, ZigBee | 0.9 | Typ. 85 | 161*97*42 | - |
| U PIDN-T040A | 38 | 30-54 | 0.7 | 120-277 | 0-10V | 0.9 | Min. 84 | 71*96*32 | - |
| P PIDN-J039A | 39 | 20-56 | 0.2-0.7 | 120-277 | 0-10V | 0.9 | Typ. 86 | 78*126*38 | cUL |
| U P PIDN-Z050A | 50 | 14-54 | 0.7-1.4 | 120-277 | 0-10V | 0.9 | Min. 86 | 71*96*32 | - |

Flat Driver



Features & Benefits

Features

- Single Stage Concept
- Adjustable Output Current
- Dimming Method: 0-10V, DALI, ZigBee
- Active Power Factor Correction
- 50,000hrs Lifetime

Benefits

- Flicker Free
- Compatibility with Diverse LED Modules
- Multiple Dimming Scheme
- Multiple Luminaires per line
- Excellent Reliability

Product List

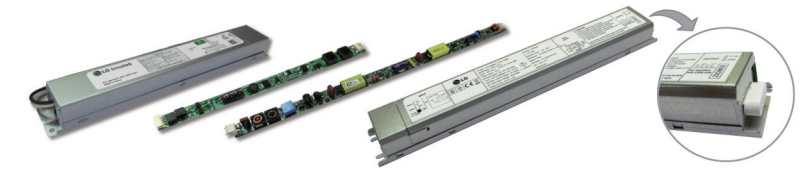
| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|------------|-----------|---------------|-------------|---------------------|-----------------|-----|----------------|---------------------|-------------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| PIFN-W030N | 30 | 10-54 | 0.5-1.05 | 120-277 | 0-10V | 0.9 | Min. 83 | 335*30*26 | CE, cUL |
| PIFE-W037D | 35 | 24-34 | 1.04 | 120-277 | DALI | 0.9 | Min 80 | 360*30*26 | CE, DALI |
| PIFN-J037A | 35 | 24-34 | 1.04 | 120-277 | ZigBee, BLE | 0.9 | Min. 80 | 360*30*26 | cUL |
| PIFC-I201A | 35 | 26-34 | 1.04 | 100-277 | 0-10V | 0.9 | Min. 83 | 360*30*26 | KC, CE, ENEC, cUL |
| PIFC-C201B | 37 | 19-23 | 0.80-1.61 | 120-277 | 0-10V | 0.9 | Min. 84 | 397*30*26 | - |
| PIFE-S037I | 37 | 30-50 | 0.75 | 220-240 | 0-10V | 0.9 | Min. 83 | 125*80*23 | CE |
| PIFK-Z037A | 37 | 31-48 | 0.78 | 220-240 | 0-10V | 0.9 | Min. 84 | 335*30*26 | KS |
| PIFN-C037A | 37 | 32-50 | 0.75 | 120-277 | 0-10V | 0.9 | Min. 84 | 335*30*26 | CE, cUL |

Product List

• Note: 1. : New Product 2. : Under Development 3. : Programmable

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|------------|-----------|---------------|-------------|---------------------|-----------------|-----|----------------|---------------------|---------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| PIFK-I037A | 40 | 43-53 | 0.55-0.76 | 120-277 | 0-10V | 0.9 | Min. 83 | 360*30*26 | CE, cUL |
| PIFK-I037B | 40 | 43-53 | 0.76 | 220-240 | 0-10V | 0.9 | Min. 83 | 360*30*26 | KS |
| PIFC-K250A | 43 | 35-45 | 0.95 | 100-240 | - | 0.9 | Min. 83 | 220*47*36 | KS |
| PIFK-Z050A | 46 | 30-48 | 0.95 | 220-240 | - | 0.9 | Min. 84 | 240*38*27 | KS |
| PIFN-C048A | 46 | 36-46 | 0.7-1.0 | 120-277 | 0-10V | 0.9 | Min. 83 | 397*30*26 | - |
| PIFK-I044B | 47 | 33-44 | 1.08 | 220-240 | 0-10V | 0.9 | Min. 83 | 360*30*26 | KS |
| PIFK-I044A | 47 | 33-44 | 0.80-1.08 | 120-277 | 0-10V | 0.9 | Min. 83 | 360*30*26 | CE, cUL |
| PIFN-X048A | 48 | 16-24 | 1.4-2.0 | 120-277 | 0-10V | 0.9 | Min. 83 | 397*30*26 | cUL |
| PIFN-C048D | 48 | 18-24 | 1.4-2.0 | 120-277 | DALI | 0.9 | Min. 83 | 424*30*26 | - |
| PIFC-I202A | 53 | 26-34 | 1.00-1.56 | 120-277 | 0-10V | 0.9 | Min. 83 | 360*30*26 | KC, CE, cUL |
| PIFN-W055N | 55 | 10-54 | 0.7-1.5 | 120-277 | 0-10V | 0.9 | Min. 83 | 397*30*26 | CE, cUL |
| PIFK-I052A | 56 | 26-31 | 1.30-1.85 | 120-277 | 0-10V | 0.9 | Min. 83 | 360*30*26 | CE, cUL |
| PIFC-K250F | 58 | 35-45 | 0.5-1.3 | 200-240 | - | 0.9 | Min. 83 | 210*57*29 | - |
| PIFN-C072B | 75 | 18-23 | 2.00-3.26 | 120-277 | 0-10V | 0.9 | Typ. 89 | 424*30*26 | cUL |

Tube Driver



Features & Benefits

| | | |
|-----------------|---|--|
| Features | <ul style="list-style-type: none"> Adjustable Output Current Dimming Method: 0-10V, ZigBee SELV Output Voltage | <ul style="list-style-type: none"> Active Power Factor Correction Efficiency up to 90% |
| Benefits | <ul style="list-style-type: none"> Compatibility with Diverse LED Modules Multiple Dimming Scheme Compliant SELV LED Drivers | <ul style="list-style-type: none"> Multiple Luminaires per line High Energy Efficiency |

Product List

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|------------|-----------|---------------|-------------|---------------------|-----------------|------|----------------|---------------------|---------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| PITK-L019D | 8 | 55-60 | 0.14 | 100-230 | - | 0.7 | Min. 87 | 47*19*15 | - |
| PITK-I009A | 9 | 26-33 | 0.29 | 100-240 | - | 0.7 | Min. 78 | 240*32*25 | KC |
| PITK-L019C | 10 | 102-110 | 0.09 | 100-230 | - | 0.7 | Min. 88 | 47*19*15 | - |
| PITJ-R013B | 11 | 70-100 | 0.11 | 100-242 | - | 0.9 | Min. 87 | 368*17*14 | - |
| PITJ-R013C | 13 | 110-169 | 0.08 | 100-242 | - | 0.9 | Typ. 92 | 375*17*14 | - |
| PITK-M015A | 14 | 50-52 | 0.28 | 100-242 | - | 0.9 | Min. 88 | 408*17*14 | - |
| PITK-L019B | 16 | 111-120 | 0.14 | 100-230 | - | 0.8 | Min. 89 | 47*19*15 | - |
| PITK-F020A | 17 | 31-35 | 0.50 | 220 | - | - | - | 220*15*7.5 | - |
| PITB-Z204A | 17 | 33-41 | 0.42 | 100-240 | - | 0.9 | Typ. 85 | 240*38*25 | KC, PSE |
| PITK-T015A | 19 | 19-33 | 0.57 | 200-240 | - | 0.9 | Min. 83 | 229*32*24 | KS, KC |
| PITK-I019A | 19 | 26-33 | 0.57 | 100-240 | - | 0.75 | Min. 80 | 240*32*25 | KC |
| PITB-Z201A | 19 | 33-41 | 0.46 | 100-240 | - | 0.9 | Typ. 85 | 240*38*25 | KC, PSE |

Product List

• Note: 1. **U** : Under Development

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|---------------------|-----------|---------------|-------------|---------------------|-----------------|-----|----------------|---------------------|---------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| U PITJ-R019A | 19 | 75-120 | 0.148-0.163 | 100-242 | - | 0.9 | Typ. 92 | 375*17*14 | - |
| PITK-L019A | 19 | 192-208 | 0.09 | 100-230 | - | 0.8 | Min. 87 | 47*19*15 | - |
| PITB-L202A | 20 | 32-41 | 0.49 | 220-240 | - | 0.9 | Min. 83 | 240*38*25 | - |
| PITB-Z203A | 20 | 33-41 | 0.48 | 100-240 | - | 0.9 | Min. 83 | 240*38*25 | KC, PSE |
| PITK-L019F | 20 | 130-140 | 0.14 | 100-230 | - | 0.8 | Typ. 90 | 47*19*18 | - |
| PITK-M022A | 22 | 67-70 | 0.32 | 100-242 | - | 0.9 | Min. 88 | 408*17*14 | - |
| PITK-L019E | 22 | 226-244 | 0.09 | 100-230 | - | 0.8 | Min. 88 | 47*19*15 | - |
| U PITK-F022A | 22 | 62-74 | 0.30 | 220 | - | - | - | 220*15*7.5 | - |
| PITK-T025A | 23 | 25-40 | 0.57 | 200-240 | - | 0.9 | Min. 85 | 229*32*24 | KS, KC |
| PITB-Z207A | 23 | 32-41 | 0.46-0.57 | 100-240 | - | 0.9 | Min. 83 | 240*32*25 | KC, PSE |
| PITB-I201A | 23 | 32-41 | 0.57 | 220-240 | - | 0.9 | Typ. 85 | 240*38*25 | KC |
| PITB-I101A | 23 | 33-41 | 0.57 | 100-240 | - | 0.9 | Typ. 85 | 240*38*25 | PSE |
| PITB-K327F | 27 | 32-48 | 0.57 | 220-240 | - | 0.9 | Min. 83 | 240*38*25 | KC |
| PITC-F027A | 27 | 32-48 | 0.57 | 220-240 | - | 0.9 | Min. 83 | 240*38*25 | - |
| U PITK-F033A | 33 | 62-74 | 0.45 | 220 | - | - | - | 220*15*7.5 | - |
| U PITK-W041N | 41 | 175-195 | 0.21 | 120-277 | ZigBee | 0.9 | Min. 89 | 340*42*24 | - |
| PITB-L301D | 44 | 26-39 | 0.57x2 | 100-240 | 0-10V, ZigBee | 0.9 | Min. 83 | 280*40*27 | KC, CE, PSE |
| U PITK-W077C | 77 | 145-189 | 0.41 | 100-242 | ZigBee | 0.9 | Min. 90 | 441*42*25 | - |
| U PITK-W077N | 80 | 175-195 | 0.41 | 120-277 | ZigBee | 0.9 | Min. 90 | 453*45*24 | - |

Outdoor Driver



Features & Benefits

| | | |
|-----------------|---|--|
| Features | <ul style="list-style-type: none"> Adjustable Output Current Dimming Method: 0-10V, DALI Programmable Functions | <ul style="list-style-type: none"> Active Power Factor Correction Efficiency up to 93% |
| Benefits | <ul style="list-style-type: none"> Compatibility with Diverse LED Modules Multiple Dimming Scheme Constant Line Output | <ul style="list-style-type: none"> Multiple Luminaires per line High Energy Efficiency |

Product List

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|---------------------|-----------|---------------|------------------------|---------------------|-----------------|------|----------------|---------------------|-----------------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| PISK-I025A | 26 | 25-37 | 0.70 | 220-240 | 0-10V | 0.9 | Min. 82 | 148*46*33 | KS,CCC |
| PISE-A027A | 27 | 22-27 | 1.0 | 120-277 | 0-10V | 0.9 | Typ. 83 | 148*46*34 | CE, cUL, ENEC |
| M PISE-A040D | 40 | 38-77 | 0.35-0.7 | 120-277 | 0-10V, DALI | 0.9 | Max. 88 | 148*60*34 | CE, cUL, ENEC, DALI |
| PISE-A040A | 40 | 38-77 | 0.35/0.5/0.7 | 120-277 | 0-10V | 0.9 | Max. 88 | 148*60*34 | CE, cUL, ENEC |
| U PISN-T050A | 50 | 13-40 | 1.25 | 100-277 | 0-10V | 0.9 | Max. 90 | 148*60*37 | - |
| PISC-C201A | 50 | 20-25 | 2.0 | 120-277 | 0-10V | 0.9 | Min. 83 | 138*47*32 | cUL |
| U PISN-C048A | 50 | 20-25 | 2.0 | 120-277 | 0-10V | 0.9 | Min. 83 | 138*47*32 | - |
| PISK-I050A | 52 | 25-37 | 1.4 | 220-240 | 0-10V | 0.9 | Min. 85 | 148*60*37 | KS,CCC |
| PISE-A055A | 55 | 44-55 | 1.0 | 120-277 | 0-10V | 0.9 | Min. 85 | 148*60*34 | CE, cUL, ENEC |
| M PISE-A075D | 75 | 68-152 | 0.35-0.7 | 120-277 | 0-10V, DALI | 0.9 | Max. 92 | 243*59*40 | CE, cUL, ENEC, DALI |
| PISE-A075A | 75 | 80-152 | 0.35/0.5/0.7 | 120-277 | 0-10V | 0.9 | Max. 92 | 243*59*40 | CE, cUL, ENEC |
| PISK-L075W | 75 | 80-152 | 0.35/0.45/0.53/0.6/0.7 | 120-277 | 0-10V | 0.9 | Max. 92 | 243*59*40 | CE, cUL |
| PISK-L075X | 75 | 80-130 | 0.7 | 220 | 0-10V | 0.9 | Min. 88 | 243*59*40 | KC |
| PISK-I075A | 78 | 25-37 | 2.1 | 220-240 | 0-10V | 0.95 | Min. 85 | 191*68*40 | KS,CCC |
| PISN-C100A | 100 | 15-24 | 4.1 | 120-277 | 0-10V | 0.9 | Min. 84 | 243*59*40 | cUL |
| PISD-W201B | 100 | 20-26 | 2.4-4.0 | 100-240 | 0-10V | 0.9 | Max. 90.5 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISD-W201F | 100 | 20-26 | 2.4-4.0 | 120-277 | 0-10V | 0.9 | Max. 90.5 | 228*68*40 | cUL |
| PISD-W201C | 100 | 28-37 | 2.0-2.7 | 100-240 | 0-10V | 0.9 | Max. 91 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISD-W201G | 100 | 28-37 | 2.0-2.7 | 120-277 | 0-10V | 0.9 | Max. 91 | 228*68*40 | cUL |
| PISD-W201D | 100 | 38-50 | 1.3-2.0 | 100-240 | 0-10V | 0.9 | Max. 91.5 | 228*68*40 | KC, KS, CE, PSE, IP65 |

Product List

• Note: 1. **N**: New Product 2. **U**: Under Development 3. **M**: Multi Function

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|---------------------|-----------|---------------|-----------------------|---------------------|-----------------|------|----------------|---------------------|-----------------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |
| PISD-W201H | 100 | 38-50 | 1.3-2.0 | 120-277 | 0-10V | 0.9 | Max. 91.5 | 228*68*40 | cUL |
| U PISK-I100A | 104 | 25-37 | 2.8 | 220-240 | 0-10V | 0.95 | Typ. 90 | 263*68*43 | KS |
| PISE-A110A | 110 | 68-110 | 1.0 | 120-277 | 0-10V | 0.9 | Min. 88 | 243*59*40 | CE, cUL, ENEC |
| PISE-W202B | 120 | 20-26 | 3.0-5.0 | 100-240 | 0-10V | 0.9 | Max. 91 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISE-W202F | 120 | 20-26 | 3.0-5.0 | 120-277 | 0-10V | 0.9 | Max. 91 | 228*68*40 | cUL |
| PISE-W202C | 120 | 28-37 | 2.5-3.4 | 100-240 | 0-10V | 0.9 | Max. 91.5 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISE-W202G | 120 | 28-37 | 2.5-3.4 | 120-277 | 0-10V | 0.9 | Max. 91.5 | 228*68*40 | cUL |
| PISE-W202D | 120 | 38-50 | 1.6-2.5 | 100-240 | 0-10V | 0.9 | Max. 92 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISE-W202H | 120 | 38-50 | 1.6-2.5 | 120-277 | 0-10V | 0.9 | Max. 92 | 228*68*40 | cUL |
| PISE-S120A | 120 | 40-57 | 2.1 | 120-277 | 0-10V | 0.9 | Min. 87 | 228*68*40 | CE, ENEC |
| PISE-W205B | 150 | 20-26 | 3.8-6.3 | 100-240 | 0-10V | 0.9 | Max. 91.5 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISE-W205F | 150 | 20-26 | 3.8-6.3 | 120-277 | 0-10V | 0.9 | Max. 91.5 | 228*68*40 | cUL |
| PISE-W205C | 150 | 28-37 | 3.1-4.2 | 100-240 | 0-10V | 0.9 | Max. 92 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISE-W205G | 150 | 28-37 | 3.1-4.2 | 120-277 | 0-10V | 0.9 | Max. 92 | 228*68*40 | cUL |
| PISE-B215H | 150 | 30-54 | 0.7x4 | 347-480 | 0-10V | 0.92 | Min. 86 | 224*85*42 | cUL |
| PISE-Z202B | 150 | 30-54 | 0.7x4 | 120-277 | 0-10V | 0.92 | Min. 86 | 224*85*42 | cUL |
| PISE-W205D | 150 | 38-50 | 2.1-3.2 | 100-240 | 0-10V | 0.9 | Max. 92.5 | 228*68*40 | KC, KS, CE, PSE, IP65 |
| PISE-W205H | 150 | 38-50 | 2.1-3.2 | 120-277 | 0-10V | 0.9 | Max. 92.5 | 228*68*40 | cUL |
| PISE-Z101B | 150 | 120-280 | 0.53 | 120-277 | 0-10V | 0.9 | Min. 89 | 243*59*40 | CE, cUL, ENEC |
| M PISE-A150D | 150 | 125-280 | 0.35-0.7 | 120-277 | 0-10V, DALI | 0.9 | Max. 93 | 243*59*40 | CE, cUL, ENEC, DALI |
| PISE-A150A | 150 | 125-280 | 0.35/0.5/0.7 | 120-277 | 0-10V | 0.9 | Max. 93 | 243*59*40 | CE, cUL, ENEC |
| PISK-L150W | 150 | 125-280 | 0.35/0.4/0.53/0.6/0.7 | 120-277 | 0-10V | 0.9 | Max. 93 | 243*59*40 | CE, cUL |
| PISK-L150X | 150 | 125-240 | 0.7 | 220 | 0-10V | 0.9 | Min. 89 | 243*59*40 | KC |
| PISE-Z101A | 150 | 130-280 | 0.53 | 120-277 | 0-10V | 0.9 | Min. 89 | 243*59*40 | KC |
| U PISK-I150A | 155 | 25-37 | 4.2 | 220-240 | 0-10V | 0.95 | Typ. 90 | 263*68*43 | KS |
| U PISK-I180A | 180 | 36-48 | 3.3-3.75 | 100-277 | 0-10V | 0.9 | Min. 88 | 263*68*42.7 | - |
| PISK-P180B | 186 | 33-38 | 3.5-4.9 | 120-277 | 0-10V | 0.9 | Min. 89 | 228*68*40 | cUL |
| PISK-P180A | 186 | 33-38 | 3.5-4.9 | 100-240 | 0-10V | 0.9 | Min. 89 | 228*68*40 | CE, KS, PSE |
| N PISK-P180C | 186 | 33-38 | 3.5-4.9 | 220-240 | 0-10V | 0.9 | Min. 89 | 228*68*40 | CCC |
| U PISK-I200A | 207 | 25-37 | 5.6 | 220-240 | 0-10V | 0.9 | Min. 85 | 263*68*43 | KS |
| N PISE-A240A | 240 | 180-310 | 0.5-1 | 120-277 | 0-10V | 0.9 | Min. 89 | 241*95*50 | CE, cUL |

Wireless Bulb Driver



Features & Benefits

- | | | |
|-----------------|--|---|
| Features | <ul style="list-style-type: none"> • Wireless On/Off and Dimming (10%-100%) • Scheduling, Group/Individual control • RF and Power integrated into 1 PCB | <ul style="list-style-type: none"> • High Efficiency over 85% with AC Direct Driver • Triac Dimmability |
| Benefits | <ul style="list-style-type: none"> • Easy to commission luminaires thru BLE Mesh • Ready-to-use- platform for various protocols | <ul style="list-style-type: none"> • Lowest concept to enable the wireless control |

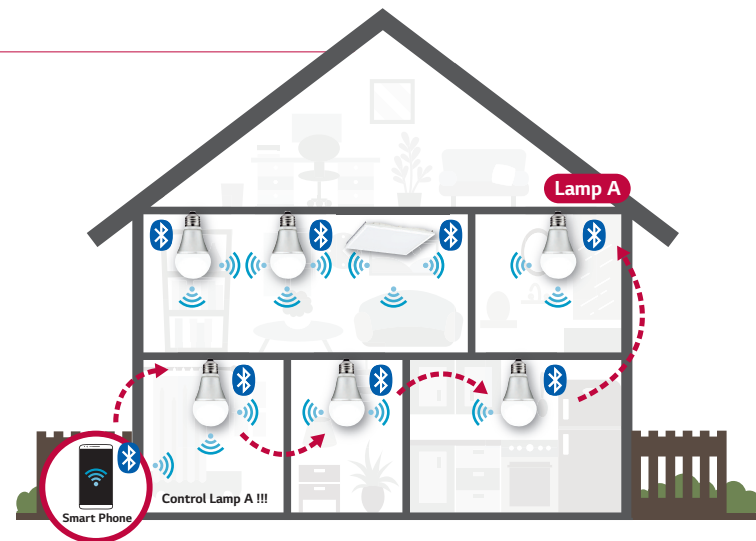
Product List

• Note: 1. : Under Development

| Model | Output | | | Input Voltage (Vac) | Type of Dimming | PF | Efficiency (%) | Dimension (LxWxHmm) | Certification |
|-------|-----------|---------------|-------------|---------------------|-----------------|----|----------------|---------------------|---------------|
| | Power (W) | Voltage (Vdc) | Current (A) | | | | | | |

| | | | | | | | | | |
|------------|-----|-----|-----|-----|-------------------|-----|---------|-------------|---|
| PIBW-Z010A | 10. | 100 | 0.1 | 120 | TRIAC, BLE/ZigBee | 0.9 | Min. 85 | 60*60*117.5 | - |
|------------|-----|-----|-----|-----|-------------------|-----|---------|-------------|---|

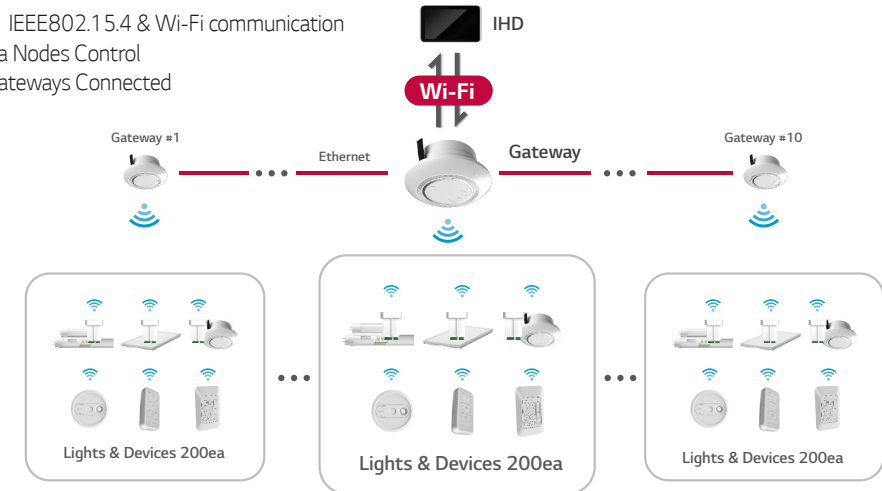
Mesh Network



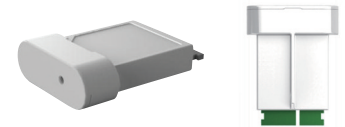
Wireless Lighting Control Network

Star Network

- 2.4GHz IEEE802.15.4 & Wi-Fi communication
- 2,000ea Nodes Control
- 10ea Gateways Connected



Wireless Module



Features

- 2.4GHz IEEE 802.15.4 compliant transceiver
- Compatible Cases with BLE and Z-wave
- Excellent Receiving sensitivity(-95dBm>)
- Programmable transmitting power adjustment
- Easy link to all kind of PWM controlled devices
- 5-Pin Connections, PWMs(UARTs), In/Out, Power
- Over-The-Air software upgrade available

Specifications

| Item | Spec. | Unit | Condition |
|-----------------------|----------|------|--------------|
| Frequency Range | 2.4-2.48 | GHz | - |
| Receiving Sensitivity | -95 | dBm | Typ. |
| Transmitting Power | +4.5 | dBm | Programmable |
| Current Consumption | Tx | 34 | mA |
| | Rx | 24 | mA |
| | Sleep | 4 | uA |
| Communication Range | 40 | m | LoS |

Wireless Lighting Control Solution

Gateway



Features

- Wireless controller for ZigBee, Z-wave and IEEE 802.15.4
- Managed by system server via Ethernet interface
- Transmission of the device's control command (Dimming, On/Off, Setting Value, OTA)
- Divided by 2 RF channels (Sensors, Lightings)
- Extends the RF coverage by using PA & LNA
- Provides extending data protocol for other device
- Table type Gateway : DC +5V

Specifications

| Item | Spec. | Unit | Condition |
|---------------------|----------|------|-------------------------------------|
| Supply Voltage | 90-270 | V | AC 50/60Hz, Ceiling |
| Current Consumption | 700mA | mA | All Operating state |
| Operating Condition | 0 ~ 50 | °C | Indoor use only |
| Ethernet | 1 | Port | TCP/IP |
| Connected devices | 200 Max. | EA | - |
| Wireless Protocol | 2.4-2.48 | GHz | IEEE 802.15.4 PHY / IEEE 802.11 b/g |
| Wireless Range | Max. 40 | m | GW to Devices (LoS) |

Wireless Lighting Control Solution

PIR/Light Sensor



Features

- Pyro-electric Passive IR and Ambient Light Sensor
- Advanced occupancy detection and daylight adjustment
- Easy to install on the ceiling and easy to link

Specifications

| Item | Spec. | Unit | Condition |
|---------------------|-----------|----------------|--------------------|
| Frequency Range | 2.4-2.48 | GHz | - |
| Supply Voltage | 90-270 | V | AC 50/60Hz |
| Current Consumption | Typ. 49 | uA | Sleep state |
| | Max. 9.2 | mA | Measuring state |
| | Max. 29.7 | mA | Tx/Rx state |
| Operating Condition | 0 ~ 40 | °C | Indoor use only |
| Light Range | 10 ~ 1000 | Lux | - |
| Detection Area | 5.5 x 5.5 | m ² | At 2.4m ceiling ht |
| Mounting Height | Max. 3.7 | m | - |
| Wireless Range | Max. 40 | m | Sensor to GW (LoS) |

Wireless Lighting Control Solution

IHD(In-Home Display)



Features

- IHD(In-Home Display) : 7" Tablet & Cradle
- Commissioning & Display environmental information
- Control devices through touch screen (Group & Individual)
- S/W upgrade with OTA & Micro-SD Card
- Compatible with LGiT communication devices
- Can be Installed on the wall with own cradle

Specifications

| Item | Spec. | Unit | Condition |
|---------------------|-------------|------|--------------------------------|
| Supply Voltage | Typ. 5.0 | V | AC/DC Adaptor (5V/1.5A) |
| Current Consumption | TBD(500mA) | mA | Display and RF operating state |
| Operating Condition | 0 ~ 50 | °C | Indoor use only |
| Wireless | 2400-2483.5 | MHz | IEEE 802.11 a/b/g |
| Display | 7.0 | Inch | 800x480 |
| Wireless Range | Max. 40 | m | IHD to GW (LoS) |

Wireless Lighting Control Solution

Wireless Interface Module



Features

- Wireless Control Dimmer Module
- AC Input Device (No requirement of additional DC supply)
- Long Distance Wireless Control thru ZigBee or BLE Mesh
- Selectable Dimming Output : PWM & 0-10V Dimming
- Easy to Install into Dimmable Luminaires or Systems

Specifications

| Item | Spec. | Unit | Condition | |
|-----------------------|----------|----------|--------------|---|
| Input Voltage | 90-270 | V | AC 50/60Hz | |
| Frequency Range | 2.4-2.48 | GHz | - | |
| Receiving Sensitivity | -95 | dBm | Typ. | |
| Transmitting Power | +4.5 | dBm | Programmable | |
| Communication Range | 40 | M | LoS | |
| Dimming Output | PWM | 0-12 PWM | V | - |
| | 0-10 | 0-10 DC | V | - |

Lighting Control Device List

| Devices | Images. | Size | Description |
|---------------------------|---|--------------------------------------|---|
| Gateway |  | 180 Φ, H=100 (Ceiling Hole 120 Φ) | <ul style="list-style-type: none"> • ZigBee, BLE, Z-Wave, WiFi, Ethernet, USB(HOST) • Demand Control Commands for other devices |
| Gateway |  | 116 Φ, H=78 (Table type 108 Φ) | <ul style="list-style-type: none"> • ZigBee, BLE, Z-Wave, WiFi, Ethernet, USB(HOST) • Demand Control Commands for other devices |
| RF Module |  | 29x22x7.7 | <ul style="list-style-type: none"> • ZigBee, BLE, or Z-wave Communication • 5 Pins Interface : PWMs (or UARTs), I/O, Power(3V) • Applicable to all kinds of lighting fixtures |
| Sensors |  | 95 Φ, H=68 (Ceiling Hole 70 Φ) | <ul style="list-style-type: none"> • ZigBee, BLE, or Z-wave Communication with Gateway • Advanced Occupancy Detection and Daylight Adjustment • Easy to install into the ceiling |
| IHD (In Home Display) |  | 195x122x12 (7" Tablet) | <ul style="list-style-type: none"> • WiFi, Android based 7" Tablet • Can be Control 1K units Lighting or Other Devices • Applicable to Install on the wall with own cradle. |
| Remote Controller |  | 80x40x10 | <ul style="list-style-type: none"> • ZigBee, BLE, or Z-wave Communication • Manual Dimming and On/Off Control (Group) • Can be use standalone without gateway |
| Multi Switches |  | 120x70x10 | <ul style="list-style-type: none"> • ZigBee, BLE, or Z-wave Communication • Can be Control Lighting Devices • Can be use standalone without gateway |
| Wireless Interface Module |  | 110x40x23 | <ul style="list-style-type: none"> • ZigBee or BLE Communication • Applicable to Dimmable lighting fixtures |