MEGAMAN®

LED
LIGHT SOURCE
PRODUCT GUIDE
2018

www.megaman.cc

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About **MEGAMAN®**

Who We Are

Artificial light enhances the way we live and work. It brings us safety, comfort and productivity. MEGAMAN® is committed to providing light in a way that is truly sustainable, energy-saving and of such a quality that it brings a positive difference into the lives of all who use the company's innovative LED lighting solutions.

MEGAMAN® is proud to be the only major brand to have exclusively manufactured low-energy lighting products throughout its entire history, offering more than 20 years of industry expertise and innovation to the lighting market.

Beginning in 1994 with the highly successful production of CFL light sources, MEGAMAN® has evolved to become a complete low-energy lighting solutions provider. MEGAMAN® has built a reputation for producing high-performance LED light sources that offer a true replacement for traditional metal halide and halogen – combining quality lighting performance with substantial energy savings.

MEGAMAN® is now applying its market-leading experience to an even wider range of product offerings including revolutionary Smart Lighting control, an extensive range LED Components and a suite of energy-efficient luminaires and lamps.

- *INGENIUM*® ZB Smart Lighting Solution provides further energy saving potential for users and allows them have full control of smart devices via the mobile app from anywhere in the world
- An extensive range of Luminaires and Lamps are developed for both indoor and outdoor applications across diverse industries
- TECOH® high performance LED Components are designed in different shapes, sizes and lumen packages to meet customer specifications
- MEGAMAN® lighting products are widely distributed throughout the world including Europe, Asia Pacific, Middle East, North America and Latin America
- Our advanced Research and Development facilities will ensure a continuous supply of innovative and sustainable lighting products in the market

MEGAMAN® continues to play a leading role in combating climate change and carbon emissions by pursuing continuous innovation in the production of low-energy lighting solutions.

MEGAMAN® Milestones

2016
Launched U-DIM™ technology, seamless dimming and compatible with the widest range of existing dimmers
Launched Hybrid Reflector technology offering excellent optics, efficacy and beam control
Introduction of Perfect White and *INGENIUM*® ZB technologies into TECOH® range

2015
Launched *INGENIUM*® ZB, a ZigBee compatible smart lighting system for smart living
Launched a full range of LED Luminaires
Expansion of TECOH® range with TECOH® APx

2014
Launched first smart lighting range, *INGENIUM*® BLU
Industry first full range of Dim to Warm LED products

2013
Integrated LED luminaires introduced

2012
Patented LED module - TECOH® MHx
TECOH® CFx – World's first 2000lm Zhaga Book2 Certified Light Engine

2011
R9 technology introduced to LED range
The first NVLAP lab certification for LED products

2010
Launched the first MEGAMAN® LED Candle and Classic
International office for Professional Marketing opens in Europe

2009
Innovative Thermal Conductive Highway™ technology incorporated into MEGAMAN® LED reflectors
NVLAP lab certification for CFL products

2008
Amalgam technology is employed in full CFL range

2007
DIMMER*ABLE*® technology introduced to CFL range

2005
DorS technology introduced to CFL range
Industry first RoHS compliant CFL
MEGAMAN® goes global, selling lamps in over 90 countries

2004
INGENIUM® technology is introduced to CFL lamps for long life and short preheating time

2002
Industry first CFL GU10 reflector launched
Introduced Silicone Protection technology to CFL range

1999
Patented Cooling-Tube technology introduced to CFL range

1997
Industry first candle-shaped CFL

1996
Industry first classic-shaped CFL

1994
MEGAMAN® incorporated

Rigorous Quality and Management Systems

All MEGAMAN® products are designed, tested and produced in our own factories in Xiamen, China. Standards have been implemented factory-wide to ensure the MEGAMAN® manufacturing processes deliver innovative, reliable and safe products with high-quality standards now and in the future.

To ensure that MEGAMAN® products comply with the highest quality standards, company manufacturing plants are equipped with their own assembly lines. The in-house laboratory is ISO 17025 certified by CNAS and NVLAP, and is eligible to perform on-site testing for Intertek, TÜV Rheinland, UL and Energy Star.

The MEGAMAN® business runs under the most stringent management and quality systems. The green elements of the production process are maximised, employee welfare is prioritised and the company is socially responsible to the local community. To continually develop these areas, MEGAMAN® has undertaken a range of international accreditations. These include:

Quality Management System

MEGAMAN® products are manufactured and certified to ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007, SA 8000:2014 and QC 080000:2012.

Corporate Social Responsibility

MEGAMAN® has received OHSAS 18001:2007 and SA 8000:2008, confirming the level of care for employees and reinforcing the company's pledge to be socially responsible.

Controlling the Use of Hazardous Substances

MEGAMAN® plants are QC 080000 certified, underlining the fact that company manufacturing processes are closely monitored to ensure ultimate control of hazardous substances.

CNAS NVLAP ISO 9001 ISO 14001

OHSAS 18001 SA080000 QC080000

Product Quality Assurance

MEGAMAN® products are made using premium quality materials and innovative technologies within stringent control measures, to deliver maximum performance and energy efficiencies.

Innovative and Unique Products

With our patented LED design and technology, the MEGAMAN® LED products are able to deliver superb performance, including low power consumption, excellent light output and low maintenance costs. They provide the highest quality lighting performance of any LED based product on the market consuming the same power!

A new era in LED lighting solutions.

Unique Features

- Energy efficient replacement for traditional metal halide, CFL, halogen and incandescent lamps
- Deliver superb lighting performance
- High luminous efficacy up to 177lm/W
- High lumen maintenance: rated lumen maintenance of 70% (L70) at up to 50,000 hours life
- Long rated life up to 50,000 hours
- High colour rendering up to Ra97
- High colour temperature consistency
- Different colour temperature options of Mellotone, Warm White, Cool White and Brilliant Tone
- Options of different beam angles for the LED Reflector range
- Up to 91% energy savings
- Simple installation and servicing
- No UV and IR radiation

Additional Benefits

- Mercury-free
- Instant start-up
- Wide range of operating temperatures

Applications

- Boutiques / Shops
- Shopping Malls
- Hotels / Restaurants / Lounges
- Museums
- Galleries
- Offices
- Household

The **Banning** of **Traditional Light** Sources

From 1 September 2016, the phasing out of mains voltage halogen reflector lamps will begin in the EU. Even standard halogen energy saving light bulbs will go the same way two years later.

This trend is set to continue across the world but MEGAMAN® is more than ready with reliable and affordable energy efficient solutions to replace every use of these outdated technologies, supported by its global distribution.

Using light vs Consuming light

With traditional high-energy consuming light sources being phased out, the high quality and durability of MEGAMAN® light sources offers the opportunity for us to use light over a period of years, rather than consume and replace it, as we have been used to.

As a brand that has only manufactured low-energy lighting products over 20 years, MEGAMAN® understands that light quality is every bit as important as energy savings.

Offering between 15,000 and 50,000 hour lifetimes, outstanding colour quality through our RichColour range, unique dim-to-warm functionality and even smart lighting control, MEGAMAN® products provide not just a replacement for conventional light sources and fixtures, but an enhancement to any lighting scheme.

Short payback times thanks to the high efficacy of our products, as well as the availability of Economy and Smart ranges alongside our Professional offering. means that in terms of affordability, MEGAMAN® has a solution to suit all customers. Customers will be using the same MEGAMAN® lamp year after year, rather than consuming and throwing away outdated conventional light sources.

Phase-out Schedule

Directional Lamps

under Commission Regulation (EC) No.1194/2012

Starting September	2012	2013	2014	2015	2016	2017	2018
A++							
A+							
A							
B – Halogen MR11, halogen MR16[1] and high efficiency halogen AR111					Will be phased out in Sept 2016		
B – Less efficient CFL and LED reflectors		Already phased out in Sept 2013 with few exceptions[2]					
C – Halogen AR48, halogen AR70 and low efficiency halogen AR111			Already phased out in Sept 2014				
D – Halogen reflectors PAR16, PAR20, PAR30, PAR38, R50, R63 and R80					Will be phased out in Sept 2016		
E – Incandescent reflector and less efficient halogen reflectors R50, R63, R80 and PAR38		Already phased out in Sept 2013					

Non-directional lamps

under Commission Regulation (EC) No. 244/2009

Starting September	2012	2013	2014	2015	2016	2017	2018
A++							
A+							
A							
B – High efficiency halogen G4 lamps				Remains after Sept 2018			
B – Less efficient CFL and LED lamps		Already phased out in Sept 2009 with few exceptions[3]					
C – High efficiency halogen R7s lamps				Remains after Sept 2018			
C – Low efficiency halogen G4 lamps				Originally C class were to be banned in Sept 2016, but the schedule has been postponed to Sept 2018			Ban
D – High efficiency halogen G9 lamps				Remains after 2018			
D – Halogen energy saver lamps (including Candle and Classic) and low efficiency halogen R7s lamps				Originally D class were to be banned in Sept 2016, but the schedule has been postponed to Sept 2018			Ban
E – Clear incandescent lamps and low efficiency halogen G9 lamps		Already phased out in Sept 2012					

Remarks:

1 Standard MR16 halogen phase out, while some specialist IRC types may still comply.

2 Exceptions includes:
- CFL lamp with CRI ≥90
- lamps with anti-glare shield

3 Exceptions includes:
- discharge lamp with cap GX53
- discharge lamp with CRI ≥90 and colour temperature ≥5000K
- non-clear lamp with CRI ≥90
- non-clear lamp with second envelope

4 Opal and pearl lamps were all banned from 2010.

Product Series

As a leading innovator of LED technology, MEGAMAN® has developed an extensive range of LED products for various domestic and commercial applications. Our products are classified into three main categories, namely Professional, Smart and Economy series. Each series has its own features designed to meet every need of consumers and professionals.

Professional Series

Suitable for commercial and high-end interior applications, the Professional series delivers high quality and comfortable light sources. This series possesses the advantages of powerful lighting performance, perfect optical design and excellent colour rendering. Having a similar profile and outlook to traditional halogen lamps, the MEGAMAN® LED reflector in Professional series is designed with unique technology such as our Hybrid Reflector and the patented Thermal Conductive Highway™ (TCH) technology for maximum durability and value over lifetime.

Smart Series

This series is a value-added option for consumers looking for high quality lighting at affordable prices. Featuring superb light output with high efficacy and performance, the Smart series is an ideal replacement for traditional incandescent or halogen lamps. The benefits of energy savings up to 90% and longer lamp life add to its appeal for consumers.

Economy Series

The most economical option among all series which serves an entry-level LED solution to replace halogen, incandescent and CFL lamps. Its long rated lamp life and high energy savings provide all the advantages you expect over traditional lighting products, but with the MEGAMAN® guarantee of quality.

Smart
Lighting:
THE NEXT
CHAPTER

Upgrade of Nomenclature System

DC OPERATED DEVICE

(GATEWAY/ CONTROLLERS/ SENSORS)

◀ **Model No.** ▶ ◀ **Supplementary Code** ▶

GW **001** **/z2** **wh**

Category Name
Two capital letters

GW Gateway
HC Handheld controller
WC Wall-mounted controller
PS PIR sensor
MS Magnetic on/off sensor
OS Light sensor
TS Temperature sensor
WS Water level sensor
SW Wall switch

Sequence
Three digits for indication

From001-999

Technology / generation
Special Feature / Technology - two digits, come with small letter(s) and/or number

Product with iBLU technology, start with 'b'
/b3 *INGENIUM* BLU Gen 3

Product with iZB technology, start with 'z'
/z1 *INGENIUM* ZB Gen 1
/z2 *INGENIUM* ZB Gen 2

Product supporting Thread, start with 't'
/t1 reserved for "Thread" technology

Product supporting Thread and ZigBee, start with 'u'
/u1 reserved for future product series

Product supporting BLE and ZigBee, start with 'w'
/w1 reserved for future product series

Color
Maximum three digits for indication

wh = White
bk = Black

xx = Default colour version.

◀ **Model No.** ▶ ◀ **Supplementary Code** ▶

DM **001** **/z2** **wh** **230V** **5H** **250** **X**

Category Name
Two capital letters

DM Dimming module
RM Relay switch module
PA Power socket adapter
GK Gateway Power Kit

Sequence
Three digits for indication

From001-999

Technology / generation
Special Feature / Technology - two digits, come with small letter(s) and/or number

Product with iBLU technology, start with 'b'
/b3 *INGENIUM* BLU Gen 3

Product with iZB technology, start with 'z'
/z1 *INGENIUM* ZB Gen 1
/z2 *INGENIUM* ZB Gen 2

Product supporting Thread, start with 't'
/t1 reserved for "Thread" technology

Product supporting Thread and ZigBee, start with 'u'
/u1 reserved for future product series

Product supporting BLE and ZigBee, start with 'w'
/w1 reserved for future product series

Colour
Maximum two digits for indication indication

wh = White
bk = Black

xx = Default colour version.

Voltage
2 letters for indication

LV AC 100-120V
HV AC 220-240V
WV AC 100-240V

Last letter 'V' stands for Voltage

Frequency
2 digits for indication

5H 50Hz
6H 60Hz
56 50/60Hz

Last letter 'H' stands for Hertz

Wattage
Three digits for indication

100 100W
250 250W
500 500W
1k0 1000W

Plug type
2 digits for indication

EU EU plug
AU AU Plug
CN CN Plug
UK UK Plug

XX wire connected

Upgrade of Nomenclature System

LED REFLECTOR

Model No. ▶ ◀ **Supplementary Code** ▶

LR 200 050 /dm/r9 - LN v00 - SP + GU10 + 928 + V0240

Category Name
Two capital letters

LR = Integral LED reflector/GX53
ER = LED reflector with external converter

Sequence
Three digits for indication
From200-999

Wattage
Three digits for indication

032 = 3.2W
050 = 5W
180 = 18W

Technology / Product Feature
Special Feature / Technology - two digits, come with small letter(s) and/or number

Optic Design
Two capital letters

HR = Hybrid reflector
TH = TCH
LN = Optical reflector
DG = Diffuser glass

Version
One letter two digits

v00 = standard
v10 = special country
v01 = different lumen

First digit: Country
Second digit: Lumen

A compact dim version of LR4605dLN and LR4605.5dDG(which are unviversal dimming) are developed for MUK. These adapt compact dim circuit but acting as universal dimming for UK dimmer. These versions are decided to provide to MUK only right now. Hence, different country is used to represent in model no. version.

Beam Angle
Two capital letters for indication

Lamp Base
Type of lamp base

Examples:
GU10
E27
E26
GX53
GU24
E14
GU5.3
B22
E17
G53

Colour Temperature
Three digits for indication

Examples:
928 = CRI>90, 2800K
830 = CRI>80, 3000K

Voltage
last three/four digits for indication

Technology / Product Feature

Existing Suffix	Proposed Suffix	Special Feature / Technology
Product with iBLU technology, start with 'b'		
dBT	/b1	INGENIUM BLU Gen 1
dBT2	/b2	INGENIUM BLU Gen 2
Product with iZB technology, start with 'z'		
dZ	/z1	INGENIUM ZB
Product with dimming feature, start with 'd'		
d	/dm	U-DIM / Dimmerable / Compact Dim
w	/dw	Dim to Warm
s	/ds	Step Dimming
Product with colors feature		
p	/pw	Perfect White
R9	/r9	RichColour
-	/ru	Utlra RichColour
-	/bu	Blue colour light
-	/gn	Green colour light
-	/or	Orange colour light
-	/rd	Red colour light
Others		
r	/sr	Sensor Light
PT	/pt	Plant Lamp
N/A	/wp	Outdoor version, waterproof
-	/db	Dual Beam Technology
-	/tw	Tunable White
-	/cw	RGBW

Beam Angle

Existing Suffix	Proposed Suffix	Special Feature / Technology
SP	NS	1°-8°(narrow spot)
SP	SP	9°-15°(spot)
SP/FL	NF	16°-24°(narrow flood)
FL/WFL	FL	25°-35°(flood)
WFL	WF	36°-45°(wide flood)
VWFL	UF	46°-60°(ultra flood)
SWFL	SF	>60°(super flood)
–	ND	Non-directional

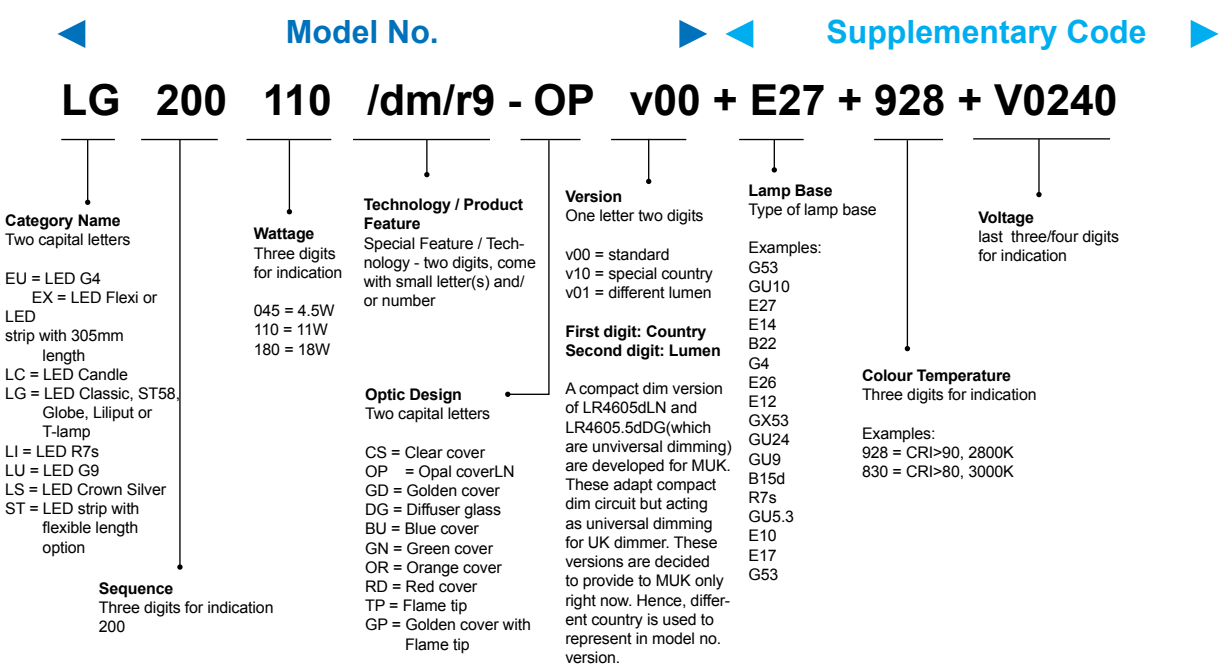
Voltage

V0100	AC 100
V0110	AC 110 - 120 V
V0120	AC100 - 120V
V0127	AC 100 - 127V
V0240	AC 220 - 240 V
AC120	AC120V
AC220	AC220V
AC012	AC12V
DC020	DC20V
DC036	DC36V
AD012	AC/DC12V
U0277	AC 100 - 277V
U0240	AC 100 - 240V
C1050	1050mA

First letter 'V' stands for Voltage
First letter 'U' stands for Universal (Wide voltage)
First two letters 'AC' stands for fixed AC voltage
First two letters 'DC' stands for fixed DC voltage
First two letters 'AD' stands for AC and DC operable
First letter 'C' stands for Current

Upgrade of Nomenclature System

CLASSIC, FLEXI, STRIPS, DECORATIVE AND SPECIAL LAMP



Technology / Product Feature

Existing Suffix	Proposed Suffix	Special Feature / Technology
Product with iBLU technology, start with 'b'		
dBT	/b1	INGENIUM BLU Gen 1
dBT2	/b2	INGENIUM BLU Gen 2
Product with iZB technology, start with 'z'		
dZB	/z1	INGENIUM ZB
Product with dimming feature, start with 'd'		
d	/dm	U-DIM / Dimmerable / Compact Dim
w	/dw	Dim to Warm
s	/ds	Step Dimming
Product with colors feature		
p	/pw	Perfect White
R9	/r9	RichColour
-	/ru	Utlra RichColour
-	/bu	Blue colour light
-	/gn	Green colour light
-	/or	Orange colour light
-	/rd	Red colour light
Others		
r	/sr	Sensor Light
PT	/pt	Plant Lamp
N/A	/wp	Outdoor version, waterproof
-	/db	Dual Beam Technology
-	/tw	Tunable White
-	/cw	RGBW

Voltage

V0100	AC 100
V0110	AC 110 - 120 V
V0120	AC100 - 120V
V0127	AC 100 - 127V
V0240	AC 220 - 240 V
AC120	AC120V
AC220	AC220V
AC012	AC12V
DC020	DC20V
DC036	DC36V
AD012	AC/DC12V
U0277	AC 100 - 277V
U0240	AC 100 - 240V
C1050	1050mA

First letter 'V' stands for Voltage
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First letter 'C' stands for Current

Upgrade of Nomenclature System

CLUSTERLITE®

Model No. ▶ **Supplementary Code**

LH 200 046 /dm/r9 - OP v00 + E27 + 928 + AC230

Category Name
Two capital letters

LH = LED CLUSTERLITE

Sequence
Three digits for indication
200

Wattage
Three digits for indication

027 = 27W
032 = 32W
046 = 46W

Different to other series, LED Clusterlite has a unique 'sequence'. Three digits to represent wattage, i.e. 032 means 32W

Technology / Product Feature
Special Feature / Technology - two digits, come with small letter(s) and/or number

Optic Design
Two capital letters

CS = Clear cover
OP = Opal cover

Version
One letter two digits

v00 = standard
v10 = special country
v01 = different lumen

First digit: Country
Second digit: Lumen

A compact dim version of LR4605dLN and LR4605.5dDG(which are unviversal dimming) are developed for MUK. These adapt compact dim circuit but acting as universal dimming for UK dimmer. These versions are decided to provide to MUK only right now. Hence, different country is used to represent in model no. version.

Lamp Base
Type of lamp base

Examples:
E27

Colour Temperature
Three digits for indication

Examples:
928 = CRI>90, 2800K
830 = CRI>80, 3000K

Voltage
last three/four digits for indication

Technology / Product Feature

Existing Suffix	Proposed Suffix	Special Feature / Technology
Product with iBLU technology, start with 'b'		
dBT	/b1	INGENIUM BLU Gen 1
dBT2	/b2	INGENIUM BLU Gen 2
Product with iZB technology, start with 'z'		
dZB	/z1	INGENIUM ZB
Product with dimming feature, start with 'd'		
d	/dm	U-DIM / Dimmerable / Compact Dim
w	/dw	Dim to Warm
s	/ds	Step Dimming
Product with colors feature		
p	/pw	Perfect White
R9	/r9	RichColour
-	/ru	Utlra RichColour
Others		
r	/sr	Sensor Light
PT	/pt	Plant Lamp
N/A	/wp	Outdoor version, waterproof
-	/db	Dual Beam Technology
-	/tw	Tunable White
-	/cw	RGBW

Voltage

V0100	AC 100
V0110	AC 110 - 120 V
V0120	AC100 - 120V
V0127	AC 100 - 127V
V0240	AC 220 - 240 V
AC120	AC120V
AC220	AC220V
AC012	AC12V
DC020	DC20V
DC036	DC36V
AD012	AC/DC12V
U0277	AC 100 - 277V
U0240	AC 100 - 240V
C1050	1050mA

First letter 'V' stands for Voltage
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First two letters 'AC' stands for fixed AC voltage
First two letters 'DC' stands for fixed DC voltage
First two letters 'AD' stands for AC and DC operable
First letter 'C' stands for Current

Upgrade of Nomenclature System

LED TUBE

Model No. ▶ ◀ **Supplementary Code** ▶

LT 200 180 /mb/r9 - 06 v00 + G13 + 928 + AC230

Category Name
Two capital letters

LT = Integral LED Tube
T8 or S19

Sequence
Three digits for indication
200

Wattage
Three digits for indication

095 = 9.5W
180 = 18W
245 = 24.5W

Special Feature / Technology
Two digits, come with small letter(s) and/or number

Length
Two digits for indication

03 = 308mmL
06 = 602mmL
12 = 1212mmL
15 = 1513mmL

Version
One letter two digits

v00 = standard
v10 = special country
v01 = different lumen

First digit: Country
Second digit: Lumen

A compact dim version of LR4605dLN and LR4605.5dDG(which are unviversal dimming) are developed for MUK. These adapt compact dim circuit but acting as universal dimming for UK dimmer. These versions are decided to provide to MUK only right now. Hence, different country is used to represent in model no. version.

Lamp Base
Type of lamp base

Examples:
G13
S19

Colour Temperature
Three digits for indication

Examples:
928 = CRI>90, 2800K
830 = CRI>80, 3000K

Voltage
last three/four digits for indication

Technology / Product Feature

Existing Suffix	Proposed Suffix	Special Feature / Technology
Power source type of LED tube		
U	/us	Universal
L	/ac	Direct line in, AC line voltage
Blank	/mb	Magnetic ballast
-	/ru	Utlra RichColour
Others		
R9	/r9	RichColour
H	/hf	High power factor

Voltage

V0100	AC 100
V0110	AC 110 - 120 V
V0120	AC100 - 120V
V0127	AC 100 - 127V
V0240	AC 220 - 240 V
AC120	AC120V
AC220	AC220V
AC012	AC12V
DC020	DC20V
DC036	DC36V
AD012	AC/DC12V
U0277	AC 100 - 277V
U0240	AC 100 - 240V
C1050	1050mA

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ULTRA RICHCOLOUR

Maximise the richness and quality of colours

ULTRA RICHCOLOUR

Maximise the richness and quality of colours

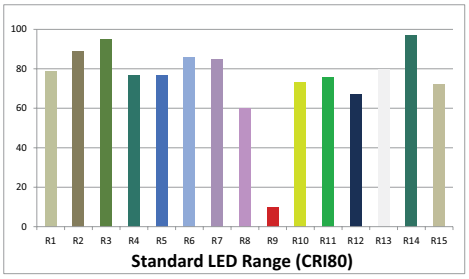
Smart Series | Constant Current

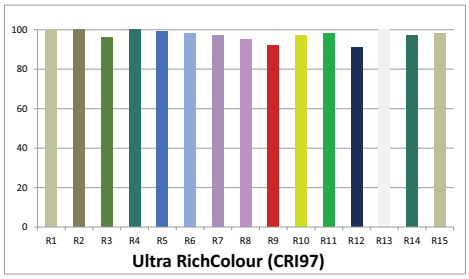
Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Dimension (mm)	Dimmable	Energy Label	Suggested driver	Product Photo
ER200065/dm/ru-HRv00-NF*	GU5.3	6.5	350mA (DC18V)	2160	24	520	400	2800K, 4000K [Ra97]	35000	Ø50 x L46	100-1%	A+	LD0509x1d-C350 (1X Driver) / LD205021/dm-C0350 (3X Driver)	1
ER200065/dm/ru-HRv00-WF*				1300	36									2

Constant Current Driver Specification

Category	Model No.	Main Input Voltage (V)	Output Voltage (V)	Lamp Wattage (W)	Max. System Wattage (W)	Rated Life (hrs)	Power Factor (λ)	Width (mm)	Length (mm)	Height (mm)	Dimmable
1X Driver	LD0509x1d-C350	220-240V	DC16-24V	7	9	50000	>0.9	46	62	20	100-1%
3X Driver	LD205021/dm-C0350		DC30-60V	21	26			55	116	25	

* Capable of linear dimming when working with DALI, DSI or 1-10V dimming drivers, and the dimming performance depends on the specification of driver.





RICHCOLOUR

Maximise the richness and quality of colours

RICHCOLOUR

Maximise the richness and quality of colours

1

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Professional Series | RichColour+ | R9 value ≥75

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
AR111	ER2812dR9HR-75H08D	G53	12	AC 12V	13000	8	650	590	2800K, 4000K [Ra95]	40000	111	58	100-10%	A	1
	ER4013dR9HR-75H24D		13		3600	24	800	720							2
	LR6511dR9HR-75H08D	GU10	11	220-240	13000	8	650	590				66	100-5%		3
	LR6611dR9HR-75H24D				3600	24	800	720							4
	LR6711dR9HR-75H45D				1500	45	800	750						A+	5

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7

Professional Series | RichColour+ | R9 value ≥75

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
PAR16	LR5906dR9HR-75H24D	GU10	6	220-240	2200	24	460	420	2800K,4000K [Ra95]	25000	50	57	100-5%	A	6
	LR5906dR9HR-75H35D				1150	35	460	420							7

6

Smart Series | RichColour+ | R9 value ≥75

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
PAR16	LR4605.5dR9DG-WFL	GU10	5.5	220-240	450	38	420	290	2800K, 4000K [Ra95]	25000	50	57	100-20%	A	6

RICHCOLOUR

Maximise the richness and quality of colours

7

8

9

Smart Series | RichColour+ | R9 value ≥75

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
MR16	ER3308dR9LN-FL	GU5.3	8	AC 12V	2550	24	520	420	2800K, 4000K [Ra95]	25000	50	49	100-10%	A	7
	ER3308dR9DG-WFL				1300	36	500	420		25000	45	49	100-10%		8
	ER4207R9LN-WFL		7		880	40	400	345	3000K [Ra95]	15000	45	48	N/A		9

10

Professional Series | RichColour

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
AR111	ER4113dR9HR-75H45D	G53	13	AC 12V	1500	45	800	750	2800K,4000K [Ra90]	40000	111	58	100-10%	A	10

11

Smart Series | RichColour | Constant Current 350mA

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Dimension (mm)	Dimmable	Energy Label	Product Photo
NEW MR16	ER200065/dm/r9-HRv00-SP	GU5.3	6.5	350mA (DC18V)	4700	12	500	450	2800K,4000K [Ra90]	35000	D50 x L46	100-1%	A	11

* Driver Specification refer to page 16
* Capable of linear dimming when working with DALI, DSI or 1-10V dimming drivers, and the dimming performance depends on the specification of driver.
Suggested Driver: LD0509x1d-C350 (1X Driver) / LD205021/dm-C0350 (3X Driver)

RICHCOLOUR

Maximise the richness and quality of colours

Smart Series | RichColour | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
Candle	25	LC0403.5R9v2	E14/E27	3.5	250	2800K, 4000K [Ra92]	15000	35	E14:100/E27:98	N/A	A+	1
Candle	40	LC0405.5R9	E14	5.5	470				100			2
P45	25	LG2603.5R9v2	E14/E27	3.5	250			45	E14:84/E27:77			3
P45	40	LG2605.5R9	E14/E27	5.5	470				E14:84/E27:77			4
A60	40	LG7105.5R9	E27	5.5				60	109			5
A60	40	LG7207dR9		7			25000		112	100-10%		6
A60	60	LG7310R9		10	810		15000		117	N/A		7
A60	60	LG7310.5dR9		10.5			25000			100-10%		8
A65	75	LG7812R9		12	1055		15000	65	125	N/A		9
A65	75	LG7813dR9		13			25000	65		100-10%		10

11

Smart Series | RichColour | 220-240V

Lamp Type	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
T8 Tube	LT0411.5R9	G13	11.5	880	4000K [Ra90]	40000	27.5	602	N/A	A+	11
	LT0520R9		20	1750				1212			
	LT0624R9		24	2200				1513			

Dim to WARM

Improved dimmimg performance with the warmth of halogen

Dim to Warm

Upgraded with U-Dim technology, Dim to Warm lamps help create relaxing and cozy atmosphere with better dimming performance.

Emits a warmer light when it is dimmed

Dim to WARM

Improved dimmimg performance with the warmth of halogen

1

Professional Series | 3000K - 1800K

Lamp Type	Model No.	Voltage (V)	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
MR16	ER033060/dw/ru-THv00-WF	350mA [DC18V]	GU5.3	6	950	35	400	300	3000K - 1800K [Ra97]	40000	50	45	100-1%[2]	A	1

[2] LED constant current driver with output current of 350mA is required.
The suggested MEGAMAN® LED driver is LD0208x1d-350.

2

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Professional Series | 3000K-1800K

Lamp Type	Model No.	Lamp Base	Wattage (W)	Voltage (V)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
AR111	ER040120/dw/ru-HRv00-NF	G53	12	350mA (DC34V)	4500	24	950	880	3000K-1800K [Ra97]	40000	111	58	100-10%	A	2
	ER041120/dw/ru-HRv00-WF				2000	45	950	880					100-10%		3
	LR066100/dw/ru-HRv00-NF	GU10	10	220-240	3500	24	720	660				66	100%-5%		4
	LR067100/dw/ru-HRv00-WF				1600	45	720	660					100%-5%		5

ER040120/dw/r9-HRv00-NF, ER041120/dw/r9-HRv00-WF suggested driver: LD0214x1d-C350

** Dim To Warm is a special technology, so it has a different R1-R15 value in Ultra Rich Colour.

Dim to WARM

Improved dimmimg performance with the warmth of halogen

6

Smart Series | 2800K - 1800K

	Lamp Type	Model No.	Voltage (V)	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	PAR16	LR057060/dw-LNv00-FL	220-240	GU10	6	680	35	400	345	2800K-1800K [Ra80]	15000	50	53	100-5%	A+	6

7

Smart Series | 3000K - 1800K

	Lamp Type	Model No.	Voltage (V)	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	PAR16	LR050060/dw/ru-DGv00-FL	220-240	GU10	6	480	35	400	280	3000K-1800K [Ra97]	25000	50	57	100-5%	A	7

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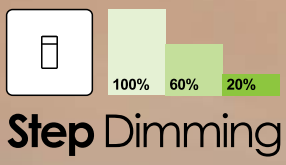
Smart Series | 2800K - 1800K

	Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Voltage (V)	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
	Candle	25	LC0404w	220-240	E14	4	250	2700K-1800K [Ra80]	25000	35	100	100-10%	A+	8
	Candle	25	LC0404wCS		E14	4	250			35	100	100-10%		9
	Candle	40	LC1105.5w[1]		E14	5.5	470			40	106	100-5%		10
	Candle	40	LC1105.5wCS[1]		E14	5.5	470			40	106	100-5%		11
	P45	25	LG2604w		E14 / E27	4	250			45	E14:84 / E27:77	100-10%		12
	P45	40	LG5205.5w[1]		E14 / E27	5.5	470			45	80	100-5%		13
	A60	40	LG7206w		E27	6	470			60	112	100-5%		14
	A60	60	LG7309.5w[1]		E27	9.5	810			60	117	100-5%		15

** Dim To Warm is a special technology, so it has a different R1-R15 value in Ultra Rich Colour.

Step Dimming



Three adjustable brightness levels: 100%, 60% and 20%

100%

60%

20%

Dim the LED lamp with any ordinary light switch

A convenient and simple way to create the perfect mood for any occasion

Step Dimming

1

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3

4

LED Reflector | Smart Series | 220-240V

Lamp Type	Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
PAR16	LR4605.5sDG-WFL	GU10	540	35	500	315	2800K / 4000K / 6500K [Ra80]	25000	50	57	100%, 60%, 20%	A+	1
PAR16	LR4606sDG-SWFL	GU10	320	90	570	500	2800K / 4000K / 6500K [Ra80]	25000	50	57	100%, 60%, 20%	A++	2
R50	LR2606s-SWFL	E14	190	90	400	340	2800K / 4000K / 6500K [Ra80]	25000	50	87	100%, 60%, 20%	A+	3
R63	LR2408s-SWFL	E27	230	90	600	520	2800K / 4000K / 6500K [Ra80]	25000	63	104	100%, 60%, 20%	A+	4

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Candle & Classic | Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Color Temp. [CRI]	Rate Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
Candle	40	LC0405.5s	E14	5.5	470	2800K / 4000K / 6500K [Ra80]	25000	35	100	100%, 60%, 20%	A+	5
P45		LG2605.5s	E14 / E27					45	E14: 84 E27: 77			6
A60		LG7105.5s	E14 / E27			2800K / 4000K [Ra80]		60	E27: 109 B22: 108			7
A60	60	LG7208.5s	E14 / E27	8.5	810				122			8
A60	75	LG7310.5s	E14 / E27	10.5	1055				E27: 117 B22: 115			9

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LED GX53 | Smart Series | 220-240V

Model No.	Wattage (W)	Total Luminous Flux(lm)	Color Temp. [CRI]	Life Time (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
LR2205s	5	300	2800K, 4000K [Ra80]	25000	75	24	100%, 60%, 20%	A+	10
LR3307s	7	520				32			11

Perfect White
Brings whites to life

Perfect White

MEGAMAN® Perfect White technology is a solution that offers retailers a distinct advantage enhancing textiles by bringing whites to life while still offering superb efficacy and energy efficiency, compared to traditional light sources. It is ideally suited for retail lighting as well as other accent and display applications.

The Perfect White range produces a high quality light that mimics the effect of daylight on white objects, giving them a natural vibrancy that makes them stand out from crowd.

Designed to replace 75W halogen AR111, MEGAMAN® LED AR111 reflectors with Perfect White technology saves up to 84% of energy while delivering excellent light output. Its long lasting nature greatly reduces maintenance time and the glass cover design makes maintenance even easier.

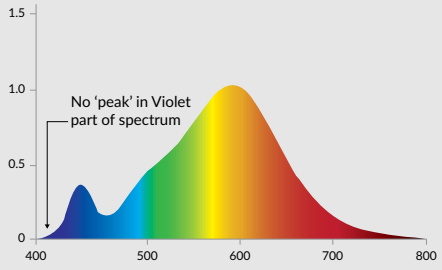
Perfect White
Brings whites to life

1

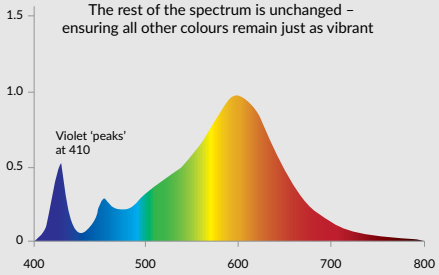
Professional Seriess | Perfect White

Model No.	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
LR4810p-75H24D	GU10	10	4800	24	730	570	3000K[Ra82]	40000	111	66	100-10%	A	1

MEGAMAN® Standard 2800K
LED Spectral Response Curve



MEGAMAN® Perfect White
LED Spectral Response Curve



INGENIUM® BLU

ingenium®
BLU

INGENIUM® BLU is a brand new series of LED lamps which use Bluetooth technology to connect to and control lighting fixtures in homes and commercial spaces. With the *INGENIUM*® BLU solution's integrated Bluetooth technology you can enjoy the benefits of smart lighting with instant and easy set-up.

Simple and Affordable

INGENIUM® BLU is the most economical way to get started with a smart lighting solution.

Easy Installation
Can be set up without wiring, making it accessible and cost-effective for everyone

Mobile Control
Control the latest MEGAMAN® LED via a smart devices

Scene Setting
Set lighting routines that fit your lifestyle

Energy-savings
High energy savings when dimming function is used

INGENIUM® BLU

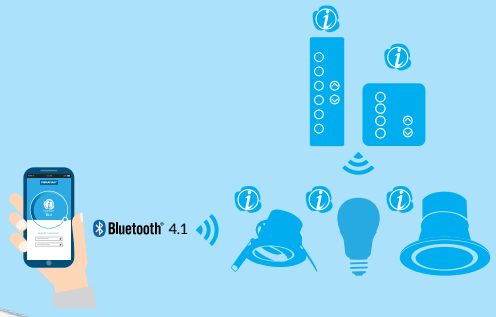
INGENIUM® BLU

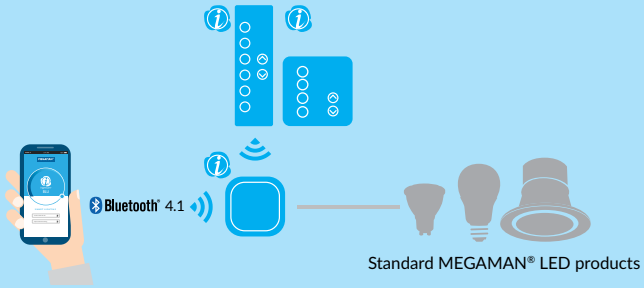
INGENIUM® BLU applies Bluetooth 4.1 technology and uses a mesh network topology – a key network architecture that extends the coverage area several times wider than before and allows for the control of substantially more lamps or devices – all while using less of your smart device's battery power. Giving users simultaneous control of up to 8 times more lamps or devices (64) than with its first generation products, the upgraded *INGENIUM*® BLU system also boasts improved dimming performance with a range of 100%-5%.

with Retrofit LED Products

with Dimming Modules

How it works





BLU
MEGAMAN®

INGENIUM® BLU App

Simple, stylish and intelligent – the advantages include easy installation, availability of direct LED retrofit, wireless compatibility, dimming feature, precision scene setting and greater energy-saving using the app.

Power
Switch the lights on and off

Dimming
Adjust brightness level with linear dimming functions

Timer
Pre-set the time to light up the lamp from lowest to full brightness

Grouping
Control lighting devices room-by-room

Scenes
Set programmers for your favorite settings for repeated use

Technical Information

Bluetooth version	4.1
Expected coverage	10 metres
Maximum number of lamps / devices to be connected at the same time	64
Maximum number of groups	At least 8 groups available (dependent of smart device)
Maximum number of lamps per group	64
Maximum number of scene set per group	At least 8 scenes available (dependent of smart device)
Control unit	Smart device with app (iOS or Android), remote controller and wall-mounted controller
Network topology	Mesh
Applications	Household use, showroom, lounge, function room, conference room, reception area, office, etc.
Recommended operating systems versions of the smart devices	iOS 7.1 and later version, Android 4.4 and later version

BLU MEGAMAN® | Available on the App Store | ANDROID APP ON Google play

Please refer to the website www.ingenium.cc for latest information.
Preliminary data

INGENIUM® BLU

1

INGENIUM® BLU | 220-240V~ 50/60Hz

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Color Temp. [CRI]	Rate Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
A65	60	LG7809dBT2-E27-2800K-230V	E27	9	810	2800K [Ra80]	25,000	65	125	100-5%	A+	1
A65	60	LG7809dBT2-E27-4000K-230V	E27	9	810	4000K [Ra80]	25,000	65	125	100-5%	A+	1

2

LED Light Engine - TECOH® THx | *INGENIUM*® BLU | 220-240V~ 50/60Hz

Lamp Type	Model No.	Wattage (W)	Max. Luminous intensity (cd)	Beam Angle	Total Luminous Flux (lm)	Luminous Flux in 90oCone (lm)	Color Temp. [CRI]	Rate Life (hrs)	Dimension (mm)	Dimmable	Energy Label	Product Photo
TECOH® THx	TH0308dBT2-24D	10	4500	24	800	730	2800K / 4000K [>Ra80]	25000	Ø50 x L75	100-10%	A+	2
TECOH® THx	TH0308dBT2-36D	10	1700	36	800	730	2800K / 4000K [>Ra80]	25000	Ø50 x L75	100-10%	A+	2

INGENIUM® BLU

INGENIUM® ZB

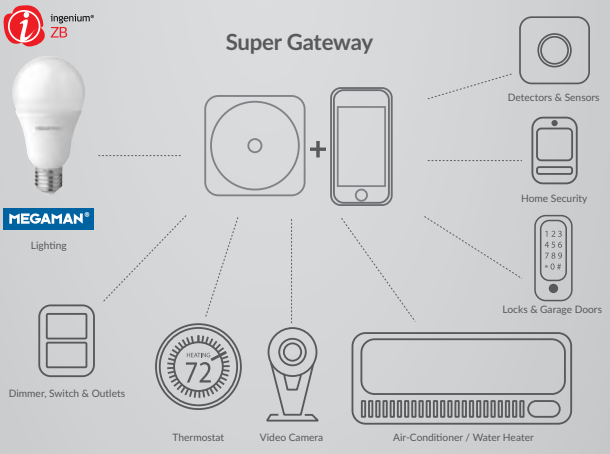
ingenium®
ZB

Scalable and Interoperable Smart Lighting System for High-end Applications

INGENIUM® ZB is a scalable smart lighting solution working with ZigBee® technology that allows users to gain wireless control over all *INGENIUM*® ZB lighting products. It is compatible with popular ZigBee® equipped super gateways, allowing you to add general lighting to your smart home automation system.

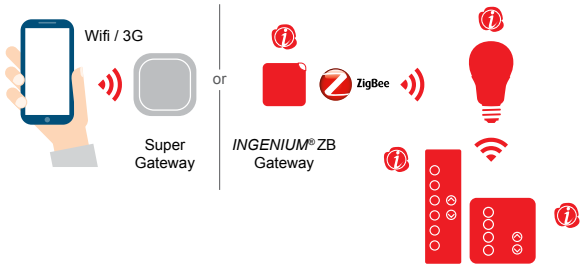
Compatible with Common ZigBee® Equipped Super Gateways

Allows interoperability between MEGAMAN® LED lighting and other home equipment

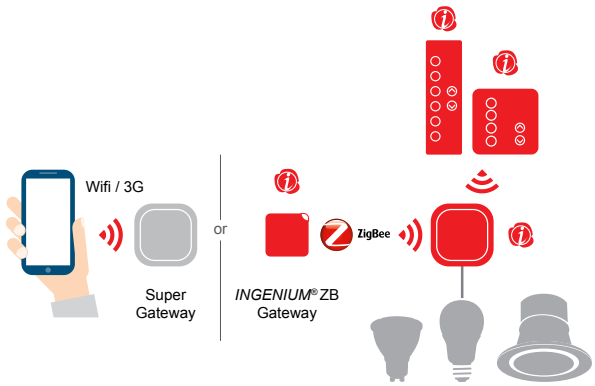


How it works

with Retrofit LED Products



with Dimming Modules



MEGAMAN® Standard Dimmable LED Products

ZigBee
Compatible with other ZigBee smart home solutions

Scalable, large coverage

Remote access

MEGAMAN® Smart Lighting – *INGENIUM*® ZB

MEGAMAN® Smart Lighting will be a bridge between general lighting and smart home system

INGENIUM® ZB Products

Technical Information

Expected coverage	30 metres
Maximum number of lamps / devices to be connected at the same time	At least 150 units
Maximum number of groups	At least 50 groups
Maximum number of lamps / devices per group	200
Control unit	Smart device with app (iOS or Android), remote controller, wall-mounted controller
Network topology	Mesh
Applications	Hotel, office, restaurant, showroom, gallery, household use etc
Recommended operating systems versions of the smart devices	iOS 8 and later version, Android 4.0 and later version

INGENIUM® ZB

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INGENIUM® ZB | 220-240V~ 50/60Hz

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Color Temp. [CRI]	Rate Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Product Photo
A65 Candle	40	LC200060/dm/z1	E27	6	470	2700K / 4000K/ 5500K	20,000	37	109	100-10%	1
A65 Classic	60	LG7809dZB		9	810	2800K / 4000K / 6500K [Ra80]	25,000	65	125		2

INGENIUM® ZB | 220-240V~ 50/60Hz

Lamp Type	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Beam Angle	Color Temp. [CRI]	Rate Life (hrs)	Diameter (mm)	Length (mm)	Dimmable
PAR16	LR210050/dm/z1-HRv00	GU10	Mass Production in Q3 2018							

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LED Light Engine - TECOH® THx | *INGENIUM*® ZB | 220-240V~ 50/60Hz

Lamp Type	Model No.	Wattage (W)	Max. Luminous intensity (cd)	Beam Angle	Total Luminous Flux (lm)	Luminous Flux in 90oCone (lm)	Color Temp. [CRI]	Rate Life (hrs)	Dimension (mm)	Dimmable	Energy Label	Product Photo
TECOH® THx	TH0308dZB-24D	10	4500	24	800	730	2800K / 4000K [>Ra80]	25000	Ø50 x L75	100-10%	A+	3
TECOH® THx	TH0308dZB-36D		1700	36								

INGENIUM® ZB

LED AR111

LED AR111

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Professional Series | Hybrid Reflector | AC12V

Model No.	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
ER2811dHR-50H08D	G53	11	13000	8	650	550	2800K, 4000K [Ra80]	40000	111	58	100-10%	A	1
ER4011dHR-50H24D			3400	24	750	650							2
ER4111dHR-50H45D			1300	45	750	680							2
ER2813dHR-75H08D		13	16000	8	750	650							3
ER4013dHR-75H24D			5000	24	900	820							2
ER4113dHR-75H45D			2000	45	900	850							2
ER2016d-100H24D		16	7000	24	1300	1100		25000		62			4

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Professional Series | Hybrid Reflector | 220-240V

Model No.	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
LR1612d-50H24D	GU10	12	3600	24	850	750	2800K, 4000K [Ra80]	30000	111	89	100-10%	A	5
LR1812d-50H45D			1400	45		750							
LR6511dHR-75H08D		11	16000	8	750	650	2800K[Ra82] 4000K[Ra85]	40000		65	100-5%		6
LR6611dHR-75H24D			5000	24	900	820							7
LR6711dHR-75H45D			2000	45		850							8

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Professional Series | Constant Current Type

Model No.	Voltage (V)	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
DC20V ER0210-50H08D	500mA (DC20V)	G53	10	16000	8	750	650	2800K [Ra82] 4000K [Ra85]	40000	111	58	100-1%*	A	9
DC20V ER0110-50H24D				3600	24		650							10
DC20V ER0310-50H45D				1400	45		650							

*ER0210-50H08D, ER0110-50H24D and ER0310-50H45D suggested driver: LD0310xld-C500

LED PAR16

Professional Series | 220-240V

	Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	LR206065/dm-HRv00-SP	6.5	7000	12	500	430	2800K, 4000K [Ra80]	25000	50	52	100-20%	A+	1
	LR5605.5dHR-50H24D	5.5	2200	24	400	350	2800K [Ra82] 4000K [Ra85]			55	100-5%		2
	LR5605.5dHR-50H35D	5.5	1100	35									3
	LR5906dHR-75H24D	6	2800	24	550	500				57			4
	LR5906dHR-75H35D	6	1400	35									5

Smart Series | 220-240V

	Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
	LR4605dDG-WFL	5	480	35	360	265	2800K [Ra82] 4000K [Ra85]	25000	50	57	100-5%	A+	6
NEW	LR057042/dm-HRv00-FL	4.2	540	35	320		2800K, 4000K [Ra80]			53	100-20%	A++	8
	LR4605dDG-VWFL	5	200	60	360	315	2800K [Ra82] 4000K [Ra85]			57	100-5%	A+	6
	LR4605dLN-WFL	5	600	40						55			7
	LR4605.5dDG-WFL	5.5	540	35	500	345				57			6
NEW	LR057054/dm-HRv00-FL	5.4	680	35	420		2800K, 4000K [Ra80]			53	100-20%		8
NEW	LR4605.5dDG-VWFL	5.5	300	60	500		2800K [Ra82] 4000K [Ra85]			57	100-5%		6
NEW	LR057067/dm-HRv00-FL	6.7	900	35	530	430	2800K, 4000K [Ra80]			53	100-20%		8
	LR057052/dm-HRv00-UF	5.2	300	60	400	320							8

Economy Series | Glass Finishing | 220-240V

	Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Luminous Flux in 120° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	LR063050-DGv00-SF	5	190	90	400	250	340	2800K, 4000K, 6500K [Ra80]	15000		55	N/A	A+	9
	LR6303.3LN-WFL	3.3	500	35	280	230	N/A				52		A++	10
	LR6304dLN-WFL	4										100-20%	A+	
	LR6304.5LN-WFL	4.5	700		400	345						N/A		
	LR6305.5dLN-WFL	5.5			380							100-20%		
	LR6305LN-WFL	5	800		500	430						N/A	A++	

LED PAR16

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Economy Series | 220-240V

Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Luminous Flux in 120° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
LR4604DG-WFL	4	500	35	250	220	N/A	2800K, 4000K [Ra80]	15000	50	57	N/A	A+	1
LR4604DG-VWFL	4	300	60										1
LR4604.5LN-WFL	4.5	800	35	360	345								1
LR057040-HRv00-FL	4	540	35	320	265					53		A++	3
LR2104DG-SWFL	4	160	90	250	220	230				57		A+	2
LR4604.5DG-WFL	4.5	560	35	360	265	N/A							1
LR4604.5DG-VWFL	4.5	360	60	360									1
LR057048-HRv00-UF	4.8	300	60	400	320					53			3
LR4605DGv2-WFL	5	830	35	500	420					57		A++	5
LR057050-HRv00-FL	5	680	35	420	345					53			3
LR4605-SWFL	5	155	100	470	N/A					57			6
LR057072-HRv00-ND	7.2	250	100	600	530	550				53			4
LR5705LN-WFL	5	800	35	400	345	N/A						A+	7
LR5705.6LN-WFL	5.6	850	35	500	430								7
LR057062-HRv00-FL	6.2	900	35	530									3

LED MR16

LED MR16

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Smart Series | Constant Current

	Model No.	Voltage (V)	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	ER200065/dm-HRv00-SP	350MA (DC16-20V)	6.5	6500	12	525	410	2800K/4000K [Ra80]	35000	50	49	100-1%	A	1
NEW	ER200065/dm-HRv00-NF			3000	24	700	650						A++	2
NEW	ER200065/dm-HRv00-WF			1800	36	700	650						A++	3

Suggested driver : LD0509x1d-C350 (1X Driver LD205021/dm-C350 (3X Driver)

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Smart Series | AC12V

	Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	ER203080/dm-HRv00-SP	8	5500	12	450	350	2800K/ 4000K/ 6500K [Ra80]	25000	50	49	100-10%	A	4
NEW	ER203080/dm-HRv00-NF		3000	24	600	500							5
NEW	ER203080/dm-HRv00-WF		1800	36									6
	ER2607.5LN-FL	7.5	2900	24	500	420	2800K[Ra82] 4000K[Ra85]			51	N/A		7
	ER2607.5LN-WFL		1800	36									

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Economy Series | AC12V

Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
ER3405DG-WFL	5	350	36	250	220	2800K, 4000K [Ra80]	15000	50	47	N/A	A	8
ER3406DG-WFL	6	500		400	300							
ER3405-SWFL	5	155	100	430	N/A						A+	

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Economy Series | Glass Finishing | AC12V

Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
ER045030-LNv00-WF	3	450	36	260	230	2800K, 4000K [Ra80]	15000	50	46	N/A	A++	9
ER045050-LNv00-WF	5	650		400	345						A+	
ER045060-LNv00-WF	6	800		500	430						A+	

LED MR11

LED MR11

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Professional Series | AC12V

Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
ER2304-20H36D	4	600	36	230	210	2800K, 4000K [Ra80]	25000	35	42	N/A	A+	1

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Smart Series | AC12V

	Model No.	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW	ER201030-LNv00-WF	3	380	36	230	210	2800K , 4000K(Ra80)	25000	35	38	N/A	A++	2

LED PAR20 PAR30 & PAR38

LED PAR20 PAR30 & PAR38

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Professional Series | 220-240V

	Lamp Type	Model No.	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW IP66	PAR38	LR036200/dm-HRv00-FL	E27	20	8800	25	2000	1850	2800K, 4000K [Ra80]	25000	121	130	100-10%	A+	1
NEW IP66	PAR38	LR036200/dm-HRv00-WF			2700	45									

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Smart Series | 220-240V

	Lamp Type	Model No.	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW IP55	PAR38	LR3213d-WFL	E27	13	1600	35	1100	800	2800K, 4000K [Ra80]	25000	121	132	100-10%	A+	2

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Smart Series | 220-240V

	Lamp Type	Model No.	Lamp Base	Wattage (W)	Colour	Rated Life (hrs)	Diameter (mm)	Length (mm)	Beam Angle	Product Photo
IP55	PAR38	LR03213/bu-DGv00-FL	E27	13	Blue	25000	121	132	35	3
		LR03213/gn-DGv00-FL			Green					

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Economy Series | 220-240V

	Lamp Type	Model No.	Lamp Base	Wattage (W)	Max. Luminous Intensity (cd)	Beam Angle (°)	Total Luminous Flux (lm)	Luminous Flux in 90° Cone (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
	PAR20	LR2906-WFL	E27	6	450	35	350	250	2800K, 4000K [Ra80]	15000	63	90	No	A	4
	PAR30S	LR3010.5-WFL		10.5	850		700	635		15000	95	88			5
IP55	PAR38	LR3215.5-WFL		15.5	1500		950	760		15000	121	132			6

LED R50, R63, R80

LED R50, R63, R80

Economy Series | 220-240V

Lamp Type	Model No.	Wattage (W)	Lamp Base	Beam Angle	Max. Luminous Intensity (cd)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
R50	LR201060-OPv00-ND	6	E14	90	N/A	500	2800K, 4000K [Ra80]	15000	50	86	N/A	A+	1
R63	LR202075-OPv00-ND	7.5	E27	110		650			63	100			2
R80	LR203085-OPv00-ND	8.5	E27	N/A		750			78	113			3

CANDLE, P45, CLASSIC AND GLOBE

MEGAMAN®

CANDLE, P45, CLASSIC AND GLOBE

Candle

15W 136lm | 25W 250lm | 29W 320lm | 40W 470lm

P45

15W 136lm | 25W 250m | 40W 470lm

U-DIM

LC0403.5d

LC0405d

LG2603.5d

LG2605d

Dimmable

LC0403.5dv2

LC0405.5dv2

LG2603.5dv2

LG2605.5dv2

Non-Dim

LC0402v2

LC0403.5v2

LC0405.5

LG2602v2

LG2603.5v2

LG2605.5

LG2605.5 (IP54)

LED CANDLE | Smart Series | 220-240V

Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
25	LC0403.5d	E14	3.5	250	2800K, 4000K [Ra80]	25000	35	100	100-5%	A+
40	LC0405d	E14/E27	5	470				E14:100 / E27:102	100-5%	

LED CANDLE | Economy Series | 220-240V

Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
25	LC0403.5dv2	E14	3.5	250	2800K, 4000K [Ra80]	15000	35	100	100-20%	A+
40	LC0405dv2		5	470						
15	LC0402v2		2	136					No	A+
25	LC0403.5v2	E14 / E27	3.5	250				E27:98 / E14:100		
40	LC0405.5		5.5	470				E14:100 / E27:102		

LED CLASSIC P45 | Smart Series | 220-240V

Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
25	LG2603.5d	E14 / E27	3.5	250	2800K, 4000K [Ra80]	15000	45	E14:84 / E27:77	100-5%	A+
40	LG2605d		5	470						

LED CLASSIC P45 | Economy Series | 220-240V

Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
25	LG2603.5dv2	E14 / E27	3.5	250	2800K, 4000K [Ra80]	15000	45	E14:84 / E27:77	100-20%	A+
40	LG2605.5dv2		5.5	470						
15	LG2602v2		2	136					No	
25	LG2603.5v2		3.5	250						
40	LG2605.5		5.5	470						
40	LG2605.5		5.5	470						

CANDLE, P45, CLASSIC AND GLOBE

CLASSIC

40W 470lm | 47W 600lm | 60W 810lm | 75W 1055lm | 100W 1521lm | 121W 1921lm

U-DIM

LG7206d

LG7310d

LG7811.5d

Dimmable

LG7106dv2

LG7209.5dv2

LG7311dv2

LG200150dm-OPv00

Non-Dim

LG7105.5

LG7207

LG7209.5

LG7311

LG200135-OPv00

LG210160-OPv00

LED CLASSIC | Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
A60	40	LG7206d	E27	6	470	2800K, 4000K [Ra80]	25000	60	112	100-5%	A+
A60	60	LG7310d		10	810				117		
A65	75	LG7811.5d		11.5	1055			65	125		

LED CLASSIC | Economy Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
NEW A60	40	LG7106dv2	E27	6	470	2800K, 4000K [Ra80]	15000	60	109	100-20%	A+
NEW A60	60	LG7209.5dv2		9.5	810				112		
NEW A60	75	LG7311dv2		11	1055				117		
NEW A60	100	LG200150/dm-OPv00		15	1521				125		
A60	40	LG7105.5		5.5	470				117	N/A	A+
A60	47	LG7207		7	600				112		
A60	60	LG7209.5		9.5	810				112		
A60	75	LG7311		11	1055				117		
A60	100	LG200135-OPv00		13.5	1521				125		
NEW A67	121	LG210160-OPv00		13.5	1921			67	134		

CANDLE, P45, CLASSIC AND GLOBE

GLOBE

60W 810lm | **75W** 1055lm | **100W** 1521lm

Dimmable

LG7610.5d

LG7613d

LG7713d

Non-Dim

LG7610

LG7611

LG7711

LG7714

Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
G95	60	LG7610.5d	E27	10.5	810	2800K, 4000K [Ra80]	25000	95	129	100-10%	A+
G95	75	LG7613d		13	1055						
G120	75	LG7713d						120	157		

Economy Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
G95	60	LG7610	E27	10	810	2800K, 4000K [Ra80]	15000	95	129	N/A	A+
G95	75	LG7611		11	1055						
G120	75	LG7711						120	157		
G120	100	LG7714		14	1521						

LED CANDLE/CLASSIC
with 360° Illumination

LED CANDLE/CLASSIC
with 360° Illumination

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Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
A60	60	LG4507.4[1]		7.4	810	2800K, 4000K [Ra80]	35000	60	107		A++	1

[1] The operating temperature is -30°C to +60°C

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Economy Series | 220-240V

	Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
	Candle	25	LC200030-OPv00	E14 / E27	3	250	2800K/ 4000K [Ra80]		35	E14:102 / E27:92	N/A	A++	2
NEW	Candle	40	LC200040-OPv00		4	470							2
	P45	25	LG204030-OPv00		3	250			45	E14:75 / E27:69			3
NEW	P45	40	LG204040-OPv00		4	470							3
	A60	40	LG206053-OPv00	E27	5.3	470			60	112		A+	4
	A60	60	LG206078-OPv00		7.8	810							4

LED FILAMENT

LED FILAMENT

2700K LED FILAMENT LAMP

22W 220lm | 25W 250lm | 40W 470lm | 60W 810lm

Dimmable

LG070030/dm-CSv00 LG068030/dm-CSv00 LG069030/dm-CSv00 LC2603.2dCS LG9603.2dCS LC2205dCS LG9705dCS LG6105dCS LG9809dCS

Non-Dim

LC1403CS LC1403TP LG9603CS LC2204.8CS LC2204.8TP LG9704CS LG9704.8CS LG6104.8CS LG9808CS

Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
Candle	25	LC2603.2dCS	E14	3.2	250	2700K [Ra80]	15000	35	96	100-20%	A+
Candle	40	LC2205dCS		5	470				96		
P45	25	LG9603.2dCS	E14/E27	3.2	250			45	E14:78 E27:75		
P45	40	LG9705dCS	E14	5	470				78		
A60	40	LG6105dCS	E27					60	105		
A60	60	LG9809dCS		9	810				108		
ST58	22	LG070030/dm-CSv00		3	220			59	131		
G95	22	LG068030/dm-CSv00						95	138		
G125	22	LG069030/dm-CSv00						125	173		

Economy Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
Candle	25	LC1403CS	E14	3	250	2700K [Ra80]	15000	35	101	No	A++
Candle	25	LC1403TP							118		
Candle	40	LC2204.8CS		4.8	470				98		
Candle	40	LC2204.8TP							117		
P45	25	LG9603CS	E14 / E27	3	250				E14: 78 / E27: 72		
P45	40	LG9704.8CS	E14	4.8	470			45	78		
A60	40	LG6104.8CS	E27					60	103		
A60	60	LG9808CS		8	810				108		

LED FILAMENT

LED FILAMENT

2200K ◀ LED GOLDEN FILAMENT LAMP ▶

Candle | ST58 | A75 | G95 | G125

Dimmable

LG6603dGD LG7003dGD LG6303dGD LG6403dGD LG6503dGD LG6903dGD

Non-Dim

LC1403GD/TP LG7003GD LG6703GD LG6803GD LG6903GD

Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
ST58	21	LG6603dGD	E27	3	210	2200K [Ra80]	15000	58	152	100-10%	A+
A75		LG6303dGD						75	156		
G95		LG6403dGD						95	159		
G125		LG6503dGD						125	194		
ST58		LG7003dGD						59	131	100-20%	
G125		LG6903dGD						125	173		

Economy Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label
Candle	21	LC1403GD/TP	E14	3	210	2200K [Ra80]	15000	35	118	No	A+
ST58		LG7003GD	E27					59	131		
A75		LG6703GD						75	135		
G95		LG6803GD						95	138		
G125		LG6903GD						125	173		

LED GX53

LED GX53

1

Smart Series | 220-240V

	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Diameter (mm)	Length (mm)	Life Time (hrs)	Dimmable	Energy Label	Product Photo
	LR2205d	GX53	5	300	2800K, 4000K [Ra80]	75	24	25000	100-10%	A+	1
NEW	LR2206d		6	480							

2

Economy Series | 220-240V

	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colout Temp. [CRI]	Diameter (mm)	Length (mm)	Life Time (hrs)	Dimmable	Energy Label	Product Photo
	LR2203.5	GX53	3.5	220	2800K, 4000K (Ra80)	75	24	15000	N/A	A+	2
NEW	LR2205		5	300							
	LR2206		6	520							
NEW	LR209065-OPv00-ND		6.5	700						A++	

LED LILIPUT

LED LILIPUT

1

Economy Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colout Temp. [CRI]	Diameter (mm)	Length (mm)	Life Time (hrs)	Energy Label	Product Photo
LG8207	E14/ E27	7	600	2800K, 4000K, 6500K [Ra80]	E14: 40 E27: 41	101	15,000	A+	1
LG082065-OPv00		6.5	810		E14: 40 E27: 41	101		A++	
LG203085-OPv00		8.5	1055		E14 / E27: 41 E14: 120 E27: 117	116		A++	

LED T-LAMP

LED T-LAMP

1

Smart Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Diameter (mm)	Length (mm)	Life Time (hrs)	Dimmable	Energy Label	Product Photo
LG2402d	E14	2	100	2800K, 4000K [Ra80]	26	57	15,000	100-20%	A+	1

2

Economy Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colout Temp. [CRI]	Diameter (mm)	Length (mm)	Life Time (hrs)	Dimmable	Energy Label	Product Photo
LG5501.2	E14	1.2	100	2800K, 4000K [Ra80]	26	57	15,000	N/A	A++	2
LG5502.4		2.4	180						A+	

LED T8

LED T8

Universal both magnetic & electronic ballasts

Professional Series | 220-240V

1

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colout Temp. [CRI]	Rated Life	Diameter (mm)	Length (mm)	Energy Label	Power Factor (λ)	Product Photo
LT0416U	G13	16	1450 [3000K] 1600 [4000K, 6500K]	91 [3000K] 100 [4000K, 6500K]	3000K, 4000K, 6500K [Ra80]	50000	27.5	602	A+	>0.9	1
LT0534.5U		34.5	2900 [3000K] 3200 [4000K, 6500K]	84 [3000K] 93 [4000K, 6500K]				1212			

Magnetic ballast compatible

Professional Series | 220-240V

2

3

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colout Temp. [CRI]	Rated Life	Diameter (mm)	Length (mm)	Energy Label	Power Factor (λ)	Product Photo
LT0409.5H	G13	9.5	800 [3000K] 800 [4000K, 6500K]	84 [3000K] 93 [4000K, 6500K]	3000K, 4000K, 6500K [Ra80]	50000	27.5	602	A+	>0.9	2
LT0518H		18	1600 [3000K] 1750 [4000K, 6500K]	89 [3000K] 97 [4000K, 6500K]				1212			3
LT0624H		24	3500 [3000K] 3600 [4000K, 6500K]	145 [3000K] 150 [4000K, 6500K]				1513			2
LT0624.5H		24.5	2400 [3000K] 2600 [4000K, 6500K]	98 [3000K] 106 [4000K, 6500K]				1513			2
LT0412.5H		12.5	1280 [3000K] 1400 [4000K, 6500K]	102 [3000K] 112 [4000K, 6500K]				602			3
LT0524.5H		24.5	2560 [3000K] 2820 [4000K, 6500K]	104 [3000K] 115 [4000K, 6500K]				1212			3
LT0629.5H		29.5	3300 [3000K] 3600 [4000K, 6500K]	112 [3000K] 122 [4000K, 6500K]				1513	A+ [3000K] A++ [4000K. 6500K]		3

4

Smart Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colout Temp. [CRI]	Rated Life	Diameter (mm)	Length (mm)	Energy Label	Product Photo
LT0523.5	G13	23.5	2200 [3000K] 2400 [4000K, 6500K]	94 [3000K] 102 [4000K, 6500K]	3000K, 4000K, 6500K [Ra80]	50000	27.5	1212	A+	4
LT0624.5		24.5	2400 [3000K] 2600 [4000K, 6500K]	98 [3000K] 106 [4000K, 6500K]				1513		

5

Economy Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Luminous Efficacy (lm/W)	Colout Temp. [CRI]	Rated Life	Diameter (mm)	Length (mm)	Energy Label	Product Photo
LT0409.5	G13	9.5	800 [3000K] 880 [4000K, 6500K]	84 [3000K] 93 [4000K, 6500K]	3000K, 4000K, 6500K [Ra80]	40000	27.5	602	A+	5
LT0518		18	1600 [3000K] 1750 [4000K, 6500K]	89 [3000K] 97 [4000K, 6500K]				1212		
LT0622		22	2000 [3000K] 2200 [4000K, 6500K]	91 [3000K] 100 [4000K, 6500K]				1513		

LED G4

LED G4

Economy Series | AC12V

	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
	EU0301.2	G4	1.2	100	2800K [Ra80]	15000	9	30	N/A	A++	1
	EU0401.8		1.8	180			10	37			2
NEW	EU200025-CSv00		2.5	250			13	40			3
NEW	EU201027-OPv00*		2.7	300				46			4

LED GU9

LED GU9

Smart Series | 220-240V

New Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
NEW LU0303d	GU9	3	180	2800K [Ra80]	25000	22	46	100-20%	A+	1
NEW LU200035/dm-OPv00		3.5	300	2800K, 4000K [Ra80]		18	55			2
NEW LU202045/dm-CSv00		4.5	510			24	64		A++	3

Economy Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Dimension (mm)	Dimmable	Energy Label	Product Photo
LU0702	GU9	2	180	2800K [Ra80]	15000	Ø19 X L43	N/A	A++	4
L0402.5v1		2.5	220			Ø22 X L53			5
NEW LU201022-CSv00		2.2	210	2700K [Ra80]		L16 X W13 X H46			6
NEW LU200035-OPv00		3.5	330	2800K, 4000K [Ra80]		Ø18 X L155			7
NEW LU202045-CSv00		4.5	600	2800K, 4000K [Ra80]		Ø24 X L64			8

LED CROWN SLIVER

LED CROWN SLIVER

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Smart Series | 220-240V

Lamp Type	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Color Temp. [CRI]	Rate Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
A55	LS0405d	E27	5	200	2800K, 4000K [Ra80]	25000	55	104	100-10%	A	1
A60	LS0505d	E28					60	107			**2**
A60	LS0505d-Brass	E29					60	107			**3**

LED R7s

LED R7s

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Smart Series | 220-240V

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life (hrs)	Dimension (mm)	Dimmable	Energy Label	Product Photo
LJ201080-CSv00	R7s	8	1055	2800K, 4000K [Ra80]	25000	W31 x H31 x L78	N/A	A+	1
LJ201070/dm-CSv00		7	810				100-20%		1
LJ202150-CSv00		15	1921			W31 x H31 x L118	N/A		2
LJ00513/dm-CSv00		13	1521				100-20%		3

LED CLUSTERLITE®

LED CLUSTERLITE®

1 2 3

Smart Series | 220-240V | Passive Cooling

	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life at L70B50@ Ta25°C (hrs)	Diameter (mm)	Length (mm)	Operating Temp	Energy Label	Product Photo
	LH200032-OPv00	E27	32	4000 [2800K] 4200 [4000K] 4000 [6500K]	2800K, 4000K, 6500K [Ra80]	30000	63	188	--30°C to +40°C	A++	1
NEW	LH203037-OPv00	E27 / E40	37	5000 [2800K] 5200 [4000K] 5000 [6500K]		35000		E27: 225 E40: 238			2
NEW	LH204055-OPv00		55	7000 [2800K] 7200 [4000K] 7000 [6500K]			80	E27: 252 E40: 265			3

4 5 6

Smart Series | 220-240V | Active Cooling

Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life at L70B50@ Ta25°C (hrs)	Diameter (mm)	Length (mm)	Operating Temp	Energy Label	Product Photo
LH0127	E27	27	2800	2800K, 4000K [Ra80]	45000	63	188	-30°C to +40°C	A+	4
LH0132		32	4000 [2800K] 4160 [4000K]		35000				A++	4
LH0133		33	4800 [2800K] 5000 [4000K]						A++	4
LH0246*	E27 / E40	46	6700 [2800K] 7000 [4000K] 7000 [6500K]	2800K, 4000K, 6500K [Ra80]			E27: 225 E40: 238		A++	5
LH201080-OPv00*	E27 / E40	80	11000 [2800K] 11500 [4000K] 11000 [6500K]		50000	80	E27: 252 E40: 265		A++	6

The LED CLUSTERLITE® is not water resistant. The waterproof performance of the lamp would only be attained if the lamp is used with a light fitting with an IP rating of IP44 or above.
The ambient temperature inside the fixture must not exceed 60°C, which is equivalent to a minimum volume of 120 x 360 x 220 (mm).
The noise level for LH0127 and LH0132 is 23dB in an enclosed fixture and 35dB when free burning.
The noise level for LH0133 and LH0246 is 28dB in an enclosed fixture and 40dB when free burning.

7 8 9

Smart Series | 220-240V | Active Cooling | Sodium Lamp Replacement

	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Colour Temp. [CRI]	Rated Life at L70B50@ Ta25°C (hrs)	Diameter (mm)	Length (mm)	Operating Temp	Energy Label	Product Photo
NEW	LH0133	E27	33	3300	2000K	35000	63	188	-30°C to +40°C	A++	7
NEW	LH0246	E27/ E40	46	4700				E27: 225 E40: 238			8
NEW	LH201080-OPv00		80	7700		50000	80	E27: 252 E40: 265			9

* LED CLUSTERLITE® with 4kV surge protection option will also be available upon request.

LED SENSOR LIGHT

LED SENSOR LIGHT

Smart Series | 220-240V

Lamp Type	Equivalent Incandescent Lamp Power (W)	Model No.	Lamp Base	Wattage (W)	Total Luminous Flux (lm)	Color Temp. [CRI]	Rate Life (hrs)	Diameter (mm)	Length (mm)	Dimmable	Energy Label	Product Photo
A60	40	LG7105.5r	E27	5.5	470	2800K, 4000K, 6500K [Ra80]	25000	60	109	No	A+	1
	47	LG7106r		6	600				109			2
	60	LG7309.5r		9.5	810				117			3
	75	LG7311r		11	1055				117			4

LED NIGHT LIGHT

LED NIGHT LIGHT

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Smart Series | 220-240V

Model No.	Wattage (W)	Plug Type	Diameter (mm)	Length (mm)	Width (mm)	Height (mm)	Colour Available	Product Photo
NL010.2	0.2	EU	65	76	N/A	N/A	Warm White (2700K), Blue, Flame, Green, Red, White	1
NL050.2	0.2	AU	41	57	N/A	N/A		2
NL050.2	0.2	CN	41	56	N/A	N/A		2
NL050.2	0.2	EU	41	66	N/A	N/A		2
NL050.2	0.2	UK	N/A	50	46	64		3

LED PLANT LAMP

LED PLANT LAMP

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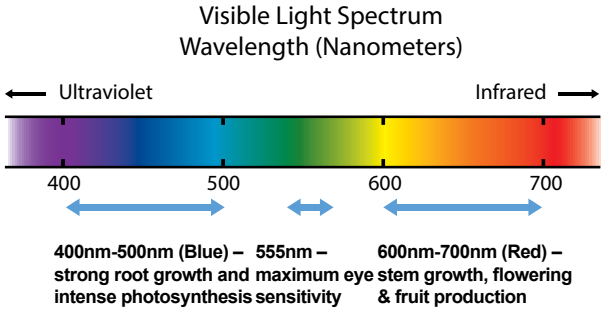
LED PLANT LAMP | Smart Series | 220-240V

	Lamp Type	Model No.	Wattage (W)	Beam Angle (°)	Lamp Base	Diameter (mm)	Length (mm)	Rated Life (hrs)	Photon Flux (umol/s)	Photon Flux per Watt (µmol/J)	Product Photo
IP55	PAR30	LR047095/pt-DGv00-WF	9.5	45		96	125		19	2.0	1
IP55	PAR38	LR032120/pt-DGv00-FL	12	35	E27	121	132	25000	24	2.0	2
IP20	A60	LG072085/pt-OPv00	8.5	N/A		60	112		17.5	2.1	3

Artificial lighting is necessary because:

- Supplemental lighting
- Photoperiodic lighting
- Cultivation without daylight



Important Segments for Horticulture Lighting

- Ceiling Lighting

- Multilayer Cultivation

Plant	Visible Light Spectum	Effect on Plant	Reference
Cabbage	660nm (Red)	Increased anthocyanin content	1
Baby Leaf Lettuce	658nm (Red)	Phenolics concentration increased by 6%	2
Tomato	660nm (Red)	Increased tomato yield	3
Kale Plants	640nm (Red)	Lutein and chlorophyll a, b accumulation increased	4
Lettuce	638nm (Red)	Increased vitamin C content in mustard, spinach and green onions	5
Green Onions	638nm (Red)	Reduction of nitrate content	5

Reference:
1. https://www.actahort.org/books/907/907_25.htm
2. https://www.sciencedirect.com/science/article/pii/S0098847209013483
3. https://www.jstage.jst.go.jp/article/ecb/50/1/50_63/_article
4. http://hortsci.ashspublications.org/content/43/7/2243.abstract
5. http://hortsci.ashspublications.org/content/44/7/1857.full

LED COLOUR BULB

LED COLOUR BULB

COLOUR BULB | Smart Series | Water Resistant Outdoor Version | 220-240V

Model No.	Wattage (W)	Colour	Lifetime	Diameter (mm)	Length (mm)
LG1801BU	1	Blue	25000	45	B22: 84 / E27: 87
LG1801GN	1	Green			B22: 84 / E27: 87
LG1801OR	1	Orange			B22: 84 / E27: 87
LG1801RD	1	Red			B22: 84 / E27: 87

COLOUR BULB | Smart Series | Water Resistant Outdoor Version | 220-240V

	Lamp Type	Model No.	Lamp Base	Wattage (W)	Colour	Lifetime	Diameter (mm)	Length (mm)	Beam Angle	Product Photo
IP55	PAR38	LR032135/bu-DGv00-FL	E27	13.5	Blue	25000	121	132		
IP55		LR032135/gn-DGv00-FL			Green					

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