GK711r

Lamp Base | Diameter (mm) | Length (mm) | Weight (g)
---|---|---|---
E27 | 60 | 116 | 87

11 Watt | 15,000 hours | 570lm | Standard Pack 60 (10)

GK715r

Lamp Base | Diameter (mm) | Length (mm) | Weight (g)
---|---|---|---
E27 | 68 | 128 | 93

15 Watt | 15,000 hours | 800lm | Standard Pack 60 (10)

Comparison with equivalent lamp type

Also available in other colour temperatures.

Operating Temperature:
-20°C to +40°C
CLUSTERLITE®
Series

Formidable Lighting for Commercial and Industrial Use
The CLUSTERLITE® is specifically designed to replace mercury tungsten blended lamps and metal halide lamps that are widely used in commercial and industrial areas. These high-wattage energy-efficient lamps offer phenomenal attributes that include high lumen maintenance, even light distribution, high colour rendering, minimal colour shift, excellent energy-savings and more.

Applications
Bus and train terminus, exhibition halls, shopping malls, showrooms, factories, warehouses, street lighting and billboards.
HC01040i
Lamp Base | Diameter (mm) | Length (mm) | Weight (g)
--- | --- | --- | ---
E27 | 63 | 166 | 257

40 Watt 15,000 hours 2680lm
Operating Temperature +40°C -29°C

Available in different colour temperatures.

HC01060i
Lamp Base | Diameter (mm) | Length (mm) | Weight (g)
--- | --- | --- | ---
E27 | 63 | 188 | 315

60 Watt 15,000 hours 4000lm
Operating Temperature +40°C -45°C

Comparison with equivalent lamp type

HC01080i
Lamp Base | Diameter (mm) | Length (mm) | Weight (g)
--- | --- | --- | ---
E27 | 80 | 244 | 553
E40 | 80 | 256 | 563

80 Watt 15,000 hours 5400lm
Operating Temperature +40°C -45°C

HC01100i
Lamp Base | Diameter (mm) | Length (mm) | Weight (g)
--- | --- | --- | ---
E27 | 80 | 267 | 578
E40 | 80 | 279 | 588

100 Watt 15,000 hours 6700lm
Operating Temperature +40°C -45°C

Size Comparison
CLUSTERLITE® Vs. Mercury Tungsten Blended Lamps

MEGAMAN®

Comparison with equivalent lamp type
HC01040i: Mercury Tungsten Blended Lamp
HC01060i: Mercury Tungsten Blended Lamp
HC01080i: Mercury Tungsten Blended Lamp
HC01100i: Mercury Tungsten Blended Lamp

Lumen Maintenance Curve Comparison:
CLUSTERLITE® Vs. Mercury Tungsten Blended Lamp
Lumen Maintenance Curve

0 2000 4000 6000 8000 10000 12000 14000 16000
Mean Lumen 80%
Mean Lumen 68%

MEGAMAN®

15,000 hrs lifetime
600,000 switching cycles
Shorter preheating time
HC01056x

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>63</td>
<td>160</td>
<td>200</td>
</tr>
<tr>
<td>E40</td>
<td>63</td>
<td>172</td>
<td>208</td>
</tr>
</tbody>
</table>

**56 Watt**

- **Operating Temperature:** +60°C to -40°C
- **Standard Pack:** 12 (1)
- **Lumen:** 4000lm

HC01080x

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E40</td>
<td>63</td>
<td>202</td>
<td>285</td>
</tr>
</tbody>
</table>

**80 Watt**

- **Operating Temperature:** +60°C to -40°C
- **Standard Pack:** 12 (1)
- **Lumen:** 5760lm

HC01120x

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E40</td>
<td>63</td>
<td>245</td>
<td>326</td>
</tr>
</tbody>
</table>

**120 Watt**

- **Operating Temperature:** +60°C to -40°C
- **Standard Pack:** 6 (1)
- **Lumen:** 8640lm

**Comparison with equivalent lamp type**

- **HC01056x**
- **HC01080x**
- **HC01120x**

**CLUSTERLITE® Power Supply is required**

- **Lamp Model**
  - HC01056x: CP010056
  - HC01080x: CP010080
  - HC01120x: CP010120

Available in different colour temperatures.

**Lumen Maintenance Curve Comparison:**

- **CLUSTERLITE® vs. Metal Halide Lamp**
  - **Lumen Maintenance Curve**
  - **Mean Lumen Over Life**

**120W CLUSTERLITE® with power supply**

- **Lumen**
- **Mean Lumen Over Life**

**150W Metal Halide Lamp**

- **Best Case**
- **Worst Case**

- **Lumen**
- **Mean Lumen Over Life**
Product Features

• Rated lamp life of 15,000 hours.
• Engineered with patented cooling-tube to guarantee over 75% lumen maintenance throughout lamp life.
• High colour rendering index of Ra 82.
• Available in any colour temperature from 2700K to 6500K.
• Excellent colour uniformity with minimal colour shift of only +/-100K.
• Effective operation in temperature range from -40°C to +80°C.
• Universal burning position for base-up, base-down or horizontal operation.
• Significant energy-savings up to 67%.
• Instant restart capability with rapid start-up time achieved within 120 seconds.
• Cluster-type lamp tube design allows continuous illumination upon partial failure of lamp tubes.

Supplementary Information:

• Optimum burning position: Horizontal and Base-down
• Optimum ambient temperature: -20°C and +45°C
JUMBO LAMP Series

Strong Lighting Solution for Industrial Use

The JUMBO LAMP series is a high performance energy-saving lamp capable of producing powerful and reliable illumination. Specially designed for strong lighting applications, it is able to replace conventional mercury lamps, which consumes significantly less power.

Applications

Sidewalks, parks, gardens, entrance areas and outdoor wall lamps.
ENERGY SAVING LAMPS

**D652**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>89</td>
<td>208</td>
<td>480</td>
</tr>
</tbody>
</table>

52 Watt 30,000 hours 3460 lm Standard Pack 60 (1)†

Comes complete with 4 PLUG-IN TUBES and Electronic ballast

Plug-in Tube for D652
Model: T4G24Q113
13W G24q1

Plug-in Tube for D672
Model: T4G24Q218
18W G24q2

**Product Features**

- Replaces 160 Watt (for D652) or 200 Watt (for D672) Mercury Tungsten Blended Lamps.
- Permits replacement of lamp tubes with the adapter system.
- Continuous illumination upon failure of one or two lamp tubes.
- Applicable in both enclosed and open fixtures.
- Offers 30,000 hours service life with integrated ballast.

Available in different colour temperatures.

† Driven by integrated electronic ballast with an operating life of 30,000 hrs.

**D672**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>89</td>
<td>218</td>
<td>487</td>
</tr>
</tbody>
</table>

72 Watt 30,000 hours 4800 lm Standard Pack 60 (1)†

Also available in B22

Comparison with equivalent lamp type

**D652**

Mercury Tungsten Blended Lamp

Available in different colour temperatures.
CFL R7s

Energy-saving Alternative to Double-ended Halogens
The CFL R7s is a low heat energy-saving lamp to substitute blazing hot double-ended halogens that often burn out easily. This lamp allows fitting into most fixtures with an R7s lamp holder and delivers 15,000 hours of continuous illumination without dilemmas related to over-heating.

Applications
Shops, boutiques, gate lighting, pillar lighting and signages.
Product Features

- Alternative to double-ended halogens
- Allow fitting into most R7s based luminaires
- Generates much less heat and UV
- Offers energy savings
- 15,000 hours lamp life with INGENIUM®

Remarks:
Optimum working temperature of lamp is 25°C

Operating Temperature:
-10°C to +40°C
Economical Lighting Solution
The PLUG-IN TUBE series is your best alternative to fluorescent tubes and incandescent bulbs as they are more compact, lasts longer and provides much soothing and comfortable lighting.

Applications
Shopping malls, supermarkets, restaurants, shops, hotels and offices.
Energy Saving Lamps

Product Features

- Self-ballasted plug-in compact fluorescent lamps
- Replaces conventional plug-in TC-S and TC-D lamps
- No hassles of matching lamp and ballast
- 1 PLi lampbase fits for all wattages
- Simplifies installation and relamping
- 15,000 hours lamp life with INGENIUM®

Remarks:
Requires connection with MEGAMAN® GY29.3 lampholder (Model no. LF1GY29.3) for lamp operation.

Comparison with equivalent lamp type

Available in different colour temperatures.

Power Consumption Comparison
PLi Vs. Conventional Plug-in Lamps

Comparison with equivalent lamp type

Available in different colour temperatures.

Operating Temperature:
4P311i: -10°C to + 40°C
4P315i: -10°C to + 40°C
4P320i: -10°C to + 50°C
PLi Compact

ENERGY SAVING LAMPS

Comparison between PLi Compact and PLi

<table>
<thead>
<tr>
<th>Series</th>
<th>Wattage (W)</th>
<th>Model</th>
<th>Dimensions (mm)</th>
<th>Lumen (lm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLi Compact</td>
<td>18</td>
<td>4P518i</td>
<td>40 x 103</td>
<td>1008</td>
</tr>
<tr>
<td>PLi Compact</td>
<td>15</td>
<td>4P515i</td>
<td>40 x 91</td>
<td>810</td>
</tr>
<tr>
<td>PLi</td>
<td>20</td>
<td>4P320i</td>
<td>40 x 91</td>
<td>1200</td>
</tr>
<tr>
<td>PLi</td>
<td>15</td>
<td>4P315i</td>
<td>40 x 103</td>
<td>900</td>
</tr>
<tr>
<td>PLi</td>
<td>11</td>
<td>4P311i</td>
<td>40 x 91</td>
<td>650</td>
</tr>
</tbody>
</table>

Comparison with equivalent lamp type

Available in different colour temperatures.

Power Consumption Comparison PLi Vs. Conventional Plug-in Lamps

18W Conventional Plug-in Lamp
- Lamp: 18W
- External Ballast: approx. 2W
- Total: approx. 20W
- Lumen: 1080lm

13W Conventional Plug-in Lamp
- Lamp: 13W
- External Ballast: approx. 2W
- Total: approx. 15W
- Lumen: 900lm

Operating Temperature:
-10°C to +40°C
### ENERGY SAVING LAMPS

#### W1711i \(W\)-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY29.3</td>
<td>40</td>
<td>112</td>
<td>57</td>
</tr>
</tbody>
</table>

11 Watt, 15,000 hours, 600lm, Standard Pack 120 (10)

### W1715i \(W\)-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY29.3</td>
<td>40</td>
<td>142</td>
<td>67</td>
</tr>
</tbody>
</table>

15 Watt, 15,000 hours, 900lm, Standard Pack 120 (10)

### W1720i \(W\)-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY29.3</td>
<td>40</td>
<td>152</td>
<td>69</td>
</tr>
</tbody>
</table>

20 Watt, 15,000 hours, 1200lm, Standard Pack 120 (10)

### W1725i \(W\)-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GY29.3</td>
<td>40</td>
<td>167</td>
<td>71</td>
</tr>
</tbody>
</table>

25 Watt, 15,000 hours, 1519lm, Standard Pack 120 (10)

### Remarks:
Requires connection with MEGAMAN® GY29.3 lampholder (Model no. LF1GY29.3) for lamp operation.

### Comparison with equivalent lamp type

#### W1711i

- Lamp: 11W
- Lumen: 600lm

#### W1715i

- Lamp: 15W
- External Ballast: approx.1W
- Total: approx.16W
- Lumen: 900lm

#### W1720i

- Lamp: 20W
- External Ballast: approx.2W
- Total: approx.22W
- Lumen: 1200lm

#### W1725i

- Lamp: 25W
- External Ballast: approx.3W
- Total: approx.28W
- Lumen: 1519lm

### Power Consumption Comparison PLi Vs. Conventional Plug-in Lamps

#### 10W Conventional Plug-in Lamp

- Lamp: 10W
- External Ballast: approx.1W
- Total: approx.11W
- Lumen: 600lm

#### 13W Conventional Plug-in Lamp

- Lamp: 13W
- External Ballast: approx.2W
- Total: approx.15W
- Lumen: 900lm

#### 18W Conventional Plug-in Lamp

- Lamp: 18W
- External Ballast: approx.3W
- Total: approx.21W
- Lumen: 1200lm

#### 26W Conventional Plug-in Lamp

- Lamp: 26W
- External Ballast: approx.3W
- Total: approx.29W
- Lumen: 1800lm

### Operating Temperature:
-10°C to +40°C
The GY29.3 lamp holder is uniquely designed to fit the same profile as G24-type lamp holders. This ensures that the PLi together with this lamp holder will fit perfect into any fixtures with this requirement.

### Profile Comparison between GY29.3 and G24-type Lamp Holder

The GY29.3 lamp holder is uniquely designed to fit the same profile as G24-type lamp holders. This ensures that the PLi together with this lamp holder will fit perfect into any fixtures with this requirement.

### Base Wiring Diagram

The distance of the mounting holes on the base of the GY29.3 lamp holder is equivalent to that of the G24-type lamp holders. Hence, replacements can be easily performed without altering the wiring position of the fixture.
**COMPACT PRO PL-T2**

**ENERGY SAVING LAMPS**

**T1GX24Q332 4P-Tube**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX24q3</td>
<td>52</td>
<td>111</td>
<td>69</td>
</tr>
</tbody>
</table>

- **32 Watt**
  - 15,000 hours
  - 2400lm
  - Standard Pack 60 (10) [Energy A]

**T1GX24Q442 4P-Tube**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX24q4</td>
<td>56</td>
<td>124</td>
<td>95</td>
</tr>
</tbody>
</table>

- **42 Watt**
  - 15,000 hours
  - 3200lm
  - Standard Pack 60 (10) [Energy A]

**T1GX24Q557 4P-Tube**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX24q5</td>
<td>56</td>
<td>149</td>
<td>103</td>
</tr>
</tbody>
</table>

- **57 Watt**
  - 15,000 hours
  - 4000lm
  - Standard Pack 60 (10) [Energy B]

**Available in different colour temperatures.**

Same wattage as conventional GX24q-type plug-in tubes but 30% shorter in length:

- **MEGAMAN® COMPACT PRO PL-T2**
- **Conventional GX24q Tube**

**T1GX24Q332**
- 32 Watt
  - 15,000 hours
  - 2400lm
  - Standard Pack 60 (10)

**T1GX24Q442**
- 42 Watt
  - 15,000 hours
  - 3200lm
  - Standard Pack 60 (10)

**T1GX24Q557**
- 57 Watt
  - 15,000 hours
  - 4000lm
  - Standard Pack 60 (10)

**Available MEGAMAN® electronic ballasts for PL-T2:**

<table>
<thead>
<tr>
<th>Lamp Model</th>
<th>Electronic Ballast Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1G X24Q 332</td>
<td>B5PQ232</td>
</tr>
<tr>
<td>T1G X24Q 442</td>
<td>B5PQ242</td>
</tr>
<tr>
<td>T1G X24Q 557</td>
<td>B5PQ257</td>
</tr>
</tbody>
</table>

**Operates on any electronic ballasts.**

**Operating Temperature:**
- -10°C to + 40°C
**ENERGY SAVING LAMPS**

**T3G24Q110  4P-Tube**

Lamp Base | Diagonal (mm) | Length (mm) | Weight (g)  
---|---|---|---
G24q1 | 40 | 80 | 32

10 Watt  15,000 hours  700lm

**T3G24Q113  4P-Tube**

Lamp Base | Diagonal (mm) | Length (mm) | Weight (g)  
---|---|---|---
G24q1 | 40 | 92 | 35

13 Watt  15,000 hours  900lm

**T3G24Q218  4P-Tube**

Lamp Base | Diagonal (mm) | Length (mm) | Weight (g)  
---|---|---|---
G24q2 | 40 | 103 | 40

18 Watt  15,000 hours  1200lm

**T3G24Q326  4P-Tube**

Lamp Base | Diagonal (mm) | Length (mm) | Weight (g)  
---|---|---|---
G24q3 | 40 | 131 | 50

26 Watt  15,000 hours  1800lm

**Available in different colour temperatures.**

**Requires connection to external electronic ballast**

<table>
<thead>
<tr>
<th>Lamp Model</th>
<th>1 x 1 Electronic Ballast Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>T3G24Q110</td>
<td>B01P0110-13x1</td>
</tr>
<tr>
<td>T3G24Q113</td>
<td>B01P0118x1</td>
</tr>
<tr>
<td>T3G24Q218</td>
<td>B01P0126x1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lamp Model</th>
<th>1 x 2 Electronic Ballast Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>T3G24Q110</td>
<td>B02P0110-13x2</td>
</tr>
<tr>
<td>T3G24Q113</td>
<td>B02P0118x2</td>
</tr>
<tr>
<td>T3G24Q218</td>
<td>B02P0126x2</td>
</tr>
</tbody>
</table>

**Same wattage as conventional G24q-type plug-in tubes but 30% shorter in length**

**MEGAMAN MATRIX PL-T2**

Conventional G24q Tube

Same wattage as conventional G24q-type plug-in tubes but 30% shorter in length

**Conventional G24q Tube**

**MEGAMAN MATRIX PL-T2**

**Conventional G24q Tube**
### T1G2305 U-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G23</td>
<td>32</td>
<td>104</td>
<td>25</td>
</tr>
</tbody>
</table>

5 Watt 8,000 hours 265lm Standard Pack 120 (10)

| Operating Temperature: | -10°C to + 40°C |

### T1G2307 U-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G23</td>
<td>32</td>
<td>133</td>
<td>30</td>
</tr>
</tbody>
</table>

7 Watt 8,000 hours 410lm Standard Pack 120 (10)

### T1G2309 U-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G23</td>
<td>32</td>
<td>163</td>
<td>32</td>
</tr>
</tbody>
</table>

9 Watt 8,000 hours 565lm Standard Pack 120 (10)

### T1G2311 U-Tube

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G23</td>
<td>32</td>
<td>233</td>
<td>44</td>
</tr>
</tbody>
</table>

11 Watt 8,000 hours 900lm Standard Pack 120 (10)

Available in different colour temperatures.
# Plug-In Tube

## Energy Saving Lamps

<table>
<thead>
<tr>
<th>2P-Tube</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T4G24D110</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lamp Base</strong></td>
<td><strong>Diagonal (mm)</strong></td>
</tr>
<tr>
<td>G24d1</td>
<td>41</td>
</tr>
<tr>
<td><strong>10 Watt</strong></td>
<td><strong>8,000 hours</strong></td>
</tr>
<tr>
<td><strong>T4G24D113</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lamp Base</strong></td>
<td><strong>Diagonal (mm)</strong></td>
</tr>
<tr>
<td>G24d1</td>
<td>41</td>
</tr>
<tr>
<td><strong>13 Watt</strong></td>
<td><strong>8,000 hours</strong></td>
</tr>
<tr>
<td><strong>T4G24D218</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lamp Base</strong></td>
<td><strong>Diagonal (mm)</strong></td>
</tr>
<tr>
<td>G24d2</td>
<td>41</td>
</tr>
<tr>
<td><strong>18 Watt</strong></td>
<td><strong>8,000 hours</strong></td>
</tr>
<tr>
<td><strong>T4G24D326</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Lamp Base</strong></td>
<td><strong>Diagonal (mm)</strong></td>
</tr>
<tr>
<td>G24d3</td>
<td>41</td>
</tr>
<tr>
<td><strong>26 Watt</strong></td>
<td><strong>8,000 hours</strong></td>
</tr>
</tbody>
</table>

### Operating Temperature
-10°C to +40°C

Available in different colour temperatures.
<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G24q1</td>
<td>41</td>
<td>106</td>
<td>35</td>
</tr>
<tr>
<td>10 Watt</td>
<td>8,000 hours</td>
<td>600lm</td>
<td>Standard Pack 120 (10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Energy A</td>
</tr>
</tbody>
</table>

**T4G24Q113 2P-Tube**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G24q1</td>
<td>41</td>
<td>133</td>
<td>44</td>
</tr>
<tr>
<td>13 Watt</td>
<td>8,000 hours</td>
<td>900lm</td>
<td>Standard Pack 60 (10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Energy A</td>
</tr>
</tbody>
</table>

**T4G24Q218 2P-Tube**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G24q2</td>
<td>41</td>
<td>143</td>
<td>49</td>
</tr>
<tr>
<td>18 Watt</td>
<td>8,000 hours</td>
<td>1200lm</td>
<td>Standard Pack 60 (10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Energy E</td>
</tr>
</tbody>
</table>

**T4G24Q326 2P-Tube**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diagonal (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G24q3</td>
<td>41</td>
<td>158</td>
<td>50</td>
</tr>
<tr>
<td>26 Watt</td>
<td>8,000 hours</td>
<td>1800lm</td>
<td>Standard Pack 60 (10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Energy E</td>
</tr>
</tbody>
</table>

Available in different colour temperatures.
NIGHT LIGHT Series

Taking Care of You at Night
The NIGHT LIGHT series has been carefully designed to illuminate and outline your staircases, corridors and bedrooms during dark hours.

Applications
Bedrooms, corridors and staircases.
ENERGY SAVING LAMPS

NIGHT LIGHT

**NL010.2**

- **Lamp Base**: 2-pin
- **Length (mm)**: 58
- **Width (mm)**: 16
- **Height (mm)**: 76
- **Light Colour**: Flame Light
- **Watt**: 0.2
- **Operating Hours**: 20,000
- **Weight (g)**: 24
- **Standard Pack**: 120 (20)

**NL040.2**

- **Available Plug Type**: UK / CN / AU / EU / US
- **Lamp Base**: 2-pin (EU) / 2-pin (CN/US) / 3-pin (UK) / 3-pin (AU)
- **Diameter (mm)**: 41
- **Length (mm)**: 66 / 56
- **Weight (g)**: 24 / 27
- **Standard Pack**: 60 (10)

**NL050.2**

- **Available Plug Type**: UK / CN / AU / EU / US
- **Lamp Base**: 2-pin (EU) / 2-pin (CN/US) / 3-pin (UK) / 3-pin (AU)
- **Diameter (mm)**: 41
- **Length (mm)**: 66 / 56
- **Weight (g)**: 25 / 27
- **Standard Pack**: 60 (10)

**NL030.6**

- **Lamp Base**: GU10
- **Diameter (mm)**: 50
- **Length (mm)**: 55
- **Weight (g)**: 30
- **Operating Hours**: 20,000
- **Weight (g)**: 24
- **Standard Pack**: 60 (10)

**Operating Temperature**: -10°C to +40°C
### NL01

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pin</td>
<td>65</td>
<td>16</td>
<td>76</td>
</tr>
</tbody>
</table>

**1 Watt**

- **10,000 hours**
- **Standard Pack**
  - 120 (20)

Weight (g): 36
Colour Temperature (K): 2700/6500

### NL0302

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Length (mm)</th>
<th>Diameter (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GU10</td>
<td>50</td>
<td>73</td>
<td>50</td>
</tr>
</tbody>
</table>

**2 Watt**

- **10,000 hours**
- **Standard Pack**
  - 60 (10)

Colour Temperature (K): 2700/6500

**Operating Temperature:**

-10°C to +40°C
Hints of delicate illumination is shed from the NIGHT LIGHT series. Its low heat design is perfect for children’s rooms. Best yet, these lamps offer a sleek appearance making them perfect for general corridor or security lighting anywhere in the home.
PLANT LAMP Series

Catalyst For Better Plant Growth
The PLANLAM® series helps your plants blossom indoors by transmitting light energy that is essential for photosynthesis. Most importantly, it produces negligible amount of UVA and almost zero amount of UVB.

Applications
Indoor plants, green houses and aquariums.
**W1511P**  
_W-tube_  
<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>44</td>
<td>119</td>
<td>52</td>
</tr>
<tr>
<td>E14</td>
<td>44</td>
<td>122</td>
<td>49</td>
</tr>
</tbody>
</table>

11 Watt 8,000 hours 600 lm Standard Pack 60 (10)

**W1514P**  
_W-tube_  
<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>44</td>
<td>130</td>
<td>57</td>
</tr>
<tr>
<td>E14</td>
<td>44</td>
<td>133</td>
<td>54</td>
</tr>
</tbody>
</table>

14 Watt 8,000 hours 800 lm Standard Pack 60 (10)

Also available in B15d & B22

<table>
<thead>
<tr>
<th>Incandescent</th>
<th>W1505</th>
<th>W1508</th>
<th>W1511</th>
<th>W1514</th>
</tr>
</thead>
</table>

Operating Temperature:  
-10°C to +40°C
PLANT LAMP

ENERGY SAVING LAMPS

**BR0211P**  
**R63**

Lamp Base: E27  
Diameter (mm): 63  
Length (mm): 105  
Weight (g): 90

**11 Watt**  
10,000 hours  
Standard Pack 60 (10)  
Optional Snap-in Reflector LB0101

**Beam Angle**: 48° Max.

**BR0315P**  
**R80**

Lamp Base: E27  
Diameter (mm): 80  
Length (mm): 111  
Weight (g): 115

**15 Watt**  
10,000 hours  
Standard Pack 24 (6)  
Optional Snap-in Reflector LB0201

**Beam Angle**: 70° Max.

**BR0620P**  
**PAR38**

Lamp Base: E27  
Diameter (mm): 121  
Length (mm): 133  
Weight (g): 240

**20 Watt**  
10,000 hours  
Standard Pack 24 (6)

---

Luminous Intensity in cd

Operating Temperature:  
BR0211P: -10°C to +40°C  
BR0315P: -20°C to +40°C  
BR0620P: -30°C to +40°C
Product Features

Emission of Specific Light Energy for Plant Nurturing

The PLANT LAMP is filled with a special type of phosphor coating that transmits light energy primarily in the blue and red light energy regions of the visible spectrum as shown in the diagram. Light energy of wavelengths from 400 to 500nm and 600 to 700nm is released for photosynthesis.

Negligible Release of Ultraviolet Radiation

The PLANT LAMP series is specifically designed to produce negligible amounts of UVA and almost zero amount of UVB.

Produces Minimal Heat

Unlike incandescent light sources that cause harm to both the appearance and growth of plants, the MEGAMAN® PLANT LAMPS are significantly more efficient in converting specific light energy for healthy plant nurturing.

Measurements of UVA & UVB (Radiant Flux)

<table>
<thead>
<tr>
<th>Model</th>
<th>UVA</th>
<th>UVB</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1511P</td>
<td>3.84x10^{-3} mW/m^2</td>
<td>1.01x10^{-3} mW/m^2</td>
</tr>
<tr>
<td>W1514P</td>
<td>4.29x10^{-3} mW/m^2</td>
<td>7.39x10^{-3} mW/m^2</td>
</tr>
<tr>
<td>BR0211P</td>
<td>4.89x10^{-3} mW/m^2</td>
<td>2.22x10^{-3} mW/m^2</td>
</tr>
<tr>
<td>BR0315P</td>
<td>2.73x10^{-3} mW/m^2</td>
<td>4.85x10^{-3} mW/m^2</td>
</tr>
<tr>
<td>BR0620P</td>
<td>4.94x10^{-3} mW/m^2</td>
<td>5.93x10^{-3} mW/m^2</td>
</tr>
</tbody>
</table>

A fantastic solution to better plant growth especially for indoor plantation is made possible with MEGAMAN® PLANT LAMP Series. Cleverly transmitting light energy which is essential for photosynthesis, the PLANT LAMP let you enjoy beautiful plants blossoms indoor.
Low Voltage Lighting

The LOW VOLTAGE LAMP series provides an impressive power-to-light output ratio with the efficiency of compact fluorescent technology. This series of lamp works perfectly on either AC or DC sources with the advantages of warm-start and instant re-start.

Applications

Fishing, camping, gardens, ocean liners and emergency lighting.
**DIRECT CURRENT LAMP**

**ENERGY SAVING LAMPS**

**W315DC12 12V**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>49</td>
<td>175</td>
<td>92</td>
</tr>
</tbody>
</table>

- **15 Watt**
- **10,000 hours**
- **810lm**
- Standard Pack: 60 (10)

- **Comparison with equivalent lamp type**

**W315DC24 24V**

<table>
<thead>
<tr>
<th>Lamp Base</th>
<th>Diameter (mm)</th>
<th>Length (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E27</td>
<td>49</td>
<td>175</td>
<td>92</td>
</tr>
</tbody>
</table>

- **15 Watt**
- **10,000 hours**
- **810lm**
- Standard Pack: 60 (10)

- **Available in different colour temperatures.**

- **Operating Temperature:** -10°C to +40°C
Product Features

Your Handy Outdoor Companion

- Driven by battery, rectified DC poser or solar panel.
- Compact enough to be carried wherever you go.
- Perfect for outdoor applications when fitted with water-proof lighting fixtures.
ENERGY SAVING LAMPS

ALTERNATING CURRENT LAMP

BR0615AC42 42V

Product Features

- Directly replaces 42V AC incandescent PAR38.
- Perfect energy-saving lighting solution for existing low voltage (42V AC) sources or areas.
- Reduced shock hazard with stepped down voltage.
- Quiet and flicker-free operation.

Applications

Solar and wind energy systems, boats, vehicles, caravans, sheds, gardens, stables and other industrial applications.

Also available in B22

Available in different colour temperatures.

Operating Temperature: -10°C to + 40°C
MARKETING TOOLS
ENERGY SAVING LAMPS

Boost your sales with MEGAMAN®'s range of marketing tools

• Sales Racks
  Delicately crafted from material that is light, durable and attractive.

• Power Bar
  A totally new approach to display and demonstrate MEGAMAN® lamps. Also fits neatly onto the MEGAMAN sales racks.

• Lamp Testers
  Innovative way to test MEGAMAN® lamps in E14, E27, B22 and GU10 lamp bases.

• Demo Kit
  Lamp tester demo kit equipped with E14, E27, B22 and GU10 lamp bases all in one single box.

• Plastic Lamp Holder
  Fits onto various sales display applications for customers to experience MEGAMAN® lamps in a more intimate fashion.
MARKETING TOOLS
ENERGY SAVING LAMPS

Alluring eco-friendly packaging for easy viewing of MEGAMAN® lamps

- **Blister Packing**
  Recyclable and transparent blister packing for full frontal visual of MEGAMAN® lamps.

- **Gift Box**
  Giftbox option with partial visual of MEGAMAN® lamps.

- **Small Sales Display**
  Suitable for confined display areas.

- **Big Assorted Sales Pallet**
  Effective and practical display tool equipped with drawers for extra storage.
All MEGAMAN® Products Exported to Europe are Already RoHS Compliant

EU Directives have adopted the RoHS (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment) and the WEEE (Waste Electrical and Electronic Equipment) directives.

Effective on 1 July 2006, RoHS bans the use of certain hazardous materials, such as lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE), in electronics products sold in Europe.

After countless efforts, MEGAMAN® launched the world’s first RoHS energy-saving lamp in April 2005. Now all products exported to Europe are already RoHS compliant.

In addition, MEGAMAN® lamps have been delicately crafted with lead-free glass tubes and amalgam to further enhance the green attributes of each product.

The WEEE Directive, on the other hand, promotes the reuse and recycling of electrical and electronic equipment. Manufacturers will be responsible for taking back, treating and/or recycling of electrical and electronic equipment, which already took effect on 13 August 2005.

All MEGAMAN® products are fabricated from recyclable materials, such as ABS plastic, silicone sleeve and glass. Mechanical snap-in method and water-based adhesive are employed in assembly to facilitate easy dismantling for recycling components. PET material is used for packaging, making MEGAMAN® products eco-friendly from beginning to finish.

Please refer to the website below for more details on the directives:
http://europa.eu.int/comm/environment/waste/weee_index.htm
How to Identify a RoHS compliant MEGAMAN® Lamp

To better identify a RoHS compliant MEGAMAN® Energy-saving Lamp, noticeable markings have been included onto the product and packaging material.

Lamp Housing

![RoHS label printed on lamp housing.]

Lamp Base

![B22 lamp base with RoHS label](image1)

RoHS compliant MEGAMAN® lamps with RoHS label printed on lamp base.

![Ordinary B22 lamp base](image2)

![E27 lamp base with green ring](image3)

RoHS compliant MEGAMAN® lamps with GREEN ring on lamp base.

![Ordinary E27 lamp base](image4)
GLOBAL SALES NETWORK

HEAD OFFICE
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Fax: (852) 2758 5957
Email: info@megaman.cc
Website: www.megaman.cc

MANUFACTURING PLANT
LISHENG ELECTRONIC & LIGHTING (XIAMEN) CO., LTD.
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Torch Development Area of Top Science & Technology,
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Website: www.cn.megaman.cc