

# CLUSTERLITE®

The CLUSTERLITE® Series is specifically designed to replace self-ballasted high pressure mercury and metal halide lamps that are widely used in commercial and industrial applications.

The high-wattage CLUSTERLITE® Series of energy-efficient lamps offer high lumen maintenance, even light distribution, high colour rendering, minimal colour shift along with excellent energy-savings.

Within the CLUSTERLITE® Series a number of the products encompasses MEGAMAN®'s patented *INGENIUM*® technology which enables improved performance, extended operating life, increased number of switching cycle and enhanced precision on preheating time control whilst allowing a more compact and lightweight lamp due to the technology's components small size. For more information on *INGENIUM*®, please see page 175.

- True Green technology containing no liquid mercury, unlike traditional high-pressure alternatives, For more information, please see page 174
- Engineered with patented cooling-tube to guarantee over 75% lumen maintenance throughout rated life
- High Colour Rendering Index of Ra82

- Eliminates the risk of potential exposure to radioactive Kr85 in case of lamp breakage
- Universal burning position for base-up, base-down or horizontal operation
- Instant restart capability with rapid start-up time achieved within 120 seconds
- Rated rated life of 15,000 hours





# Compact Fluorescent CLUSTERLITE®



## CLUSTERLITE® Integrated Ballast



| wattage     | tungsten equivalent          | cap        | colour temperature | luminous flux (lm) | diameter (mm) | length (mm) | weight (g) | operating temperature (°C) | energy label | item no.                | E27 | E40 |
|-------------|------------------------------|------------|--------------------|--------------------|---------------|-------------|------------|----------------------------|--------------|-------------------------|-----|-----|
| <b>40W</b>  | (120W) / (200W) <sup>1</sup> | <b>E27</b> | 2700K              | 2680               | 63            | 166         | 252        | -25 to +60                 | A            | HC01040i-E27-2700K-230V |     |     |
| <b>40W</b>  | (120W) / (200W) <sup>1</sup> | <b>E27</b> | 6500K              | 2450               | 63            | 166         | 252        | -25 to +60                 | B            | HC01040i-E27-6500K-230V |     |     |
| <b>60W</b>  | (180W) / (300W) <sup>1</sup> | <b>E27</b> | 2700K              | 4000               | 63            | 188         | 285        | -40 to +60                 | B            | HC01060i-E27-2700K-230V |     |     |
| <b>60W</b>  | (180W) / (300W) <sup>1</sup> | <b>E27</b> | 6500K              | 3800               | 63            | 188         | 285        | -40 to +60                 | B            | HC01060i-E27-6500K-230V |     |     |
| <b>80W</b>  | (250W)                       | <b>E27</b> | 2700K              | 5400               | 80            | 244         | 553        | -40 to +60                 | B            | HC01080i-E27-2700K-230V |     |     |
| <b>80W</b>  | (250W)                       | <b>E27</b> | 6500K              | 5130               | 80            | 244         | 553        | -40 to +60                 | B            | HC01080i-E27-6500K-230V |     |     |
| <b>80W</b>  | (250W)                       | <b>E40</b> | 2700K              | 5400               | 80            | 256         | 563        | -40 to +60                 | B            | HC01080i-E40-2700K-230V |     |     |
| <b>80W</b>  | (250W)                       | <b>E40</b> | 6500K              | 5130               | 80            | 256         | 563        | -40 to +60                 | B            | HC01080i-E40-6500K-230V |     |     |
| <b>100W</b> | (300W)                       | <b>E27</b> | 2700K              | 6700               | 80            | 267         | 578        | -40 to +60                 | -            | HC01100i-E27-2700K-230V |     |     |
| <b>100W</b> | (300W)                       | <b>E27</b> | 6500K              | 6365               | 80            | 267         | 578        | -40 to +60                 | B            | HC01100i-E27-6500K-230V |     |     |
| <b>100W</b> | (300W)                       | <b>E40</b> | 2700K              | 6700               | 80            | 279         | 588        | -40 to +60                 | -            | HC01100i-E40-2700K-230V |     |     |
| <b>100W</b> | (300W)                       | <b>E40</b> | 6500K              | 6365               | 80            | 279         | 588        | -40 to +60                 | B            | HC01100i-E40-6500K-230V |     |     |

Voltage **220-240V**  
Rated life **15,000hrs**

<sup>1</sup> Incandescent bulb A80 equivalent



## CLUSTERLITE® requiring Power Supply



| wattage     | tungsten equivalent | cap        | colour temperature | luminous flux (lm) | diameter (mm) | length (mm) | weight (g) | operating temperature (°C) | energy label | item no.                | E40 |
|-------------|---------------------|------------|--------------------|--------------------|---------------|-------------|------------|----------------------------|--------------|-------------------------|-----|
| <b>120W</b> | (150W)              | <b>E40</b> | 2700K              | 8640               | 63            | 245         | 326        | -40 to +60                 | -            | HC01120x-E40-2700K-230V |     |
| <b>120W</b> | (150W)              | <b>E40</b> | 6500K              | 8200               | 63            | 245         | 326        | -40 to +60                 | -            | HC01120x-E40-6500K-230V |     |
| <b>200W</b> | (250W)              | <b>E40</b> | 2700K              | 14400              | 90            | 278         | 735        | -40 to +60                 | -            | HC01200x-E40-2700K-230V |     |
| <b>200W</b> | (250W)              | <b>E40</b> | 6500K              | 13680              | 90            | 278         | 735        | -40 to +60                 | -            | HC01200x-E40-6500K-230V |     |
| <b>320W</b> | (400W)              | <b>E40</b> | 2700K              | 23000              | 110           | 297         | 1041       | -40 to +60                 | -            | HC01320x-E40-2700K-230V |     |
| <b>320W</b> | (400W)              | <b>E40</b> | 6500K              | 21850              | 110           | 297         | 1041       | -40 to +60                 | -            | HC01320x-E40-6500K-230V |     |

Voltage **220-240V**  
Rated life **15,000hrs**

## CLUSTERLITE® External Power Supply



| mains input voltage (V) | input voltage range (V) | nominal wattage output (W) | system wattage output (W) | max. working voltage [U-out] (V) | mains current (mA) | power factor (λ) | length (mm) | width (mm) | weight (g) | CLUSTERLITE® supported | item no.                    |
|-------------------------|-------------------------|----------------------------|---------------------------|----------------------------------|--------------------|------------------|-------------|------------|------------|------------------------|-----------------------------|
| 220-240                 | 180-260                 | 120                        | 142                       | 300                              | 650                | 0.98             | 140         | 57         | 530        | HC01120x               | <b>CP010120<sup>a</sup></b> |
| 220-240                 | 180-260                 | 200                        | 220                       | 400                              | 1020               | 0.98             | 175         | 59         | 710        | HC01200x               | <b>CP010200<sup>b</sup></b> |
| 220-240                 | 180-260                 | 320                        | 350                       | 400                              | 1560               | 0.98             | 175         | 59         | 800        | HC01320x               | <b>CP010320<sup>b</sup></b> |

Ambient Temperature Range (Ta) **-40°C to +60°C**  
Maximum Casting Temperature (Tc) **85°C**  
Life Hours **50,000 hrs**  
Push in Terminals **a - 1.0mm to 1.5mm / b - 1.0mm to 2.0mm**  
Extension Wire (m) **18AWGX2C**  
Fixing Bracket for Screws **M4**  
Luminaire Protection **II**

Compact Fluorescent  
**CLUSTERLITE®**



**CLUSTERLITE® Globe  
 Integrated Ballast**

| wattage    | incandescent equivalent   | cap        | colour temperature | luminous flux (lm) | diameter (mm) | length (mm) | weight (g) | operating temperature (°C) | energy label | item no.                        | E27 |
|------------|---------------------------|------------|--------------------|--------------------|---------------|-------------|------------|----------------------------|--------------|---------------------------------|-----|
| <b>50W</b> | <i>(250W)<sup>2</sup></i> | <b>E27</b> | 2700K              | 2700               | 120           | 202         | 410        | -40 to +60                 | B            | <b>GHC01050i-E27-2700K-230V</b> |     |
| <b>50W</b> | <i>(250W)<sup>2</sup></i> | <b>E27</b> | 6500K              | 2400               | 120           | 202         | 410        | -40 to +60                 | B            | <b>GHC01050i-E27-6500K-230V</b> |     |



Voltage **220-240V**  
 Rated life **15,000hrs**

<sup>2</sup>Incandescent bulb G120 equivalent