

**DATASHEET**

**ORDERING CODE: MHB100MW**

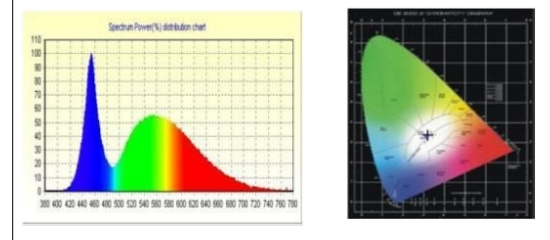


| SPECIFICATIONS OF LUMINARY. |                         |
|-----------------------------|-------------------------|
| Luminaries wattage          | 100 Watt (+/- 5%)       |
| Input Voltage               | 230 VAC                 |
| Input Frequency             | 50 Hz                   |
| Input Current               | 0.469A                  |
| Power Factor                | > 0.96                  |
| Athd.                       | CLASS C                 |
| Efficiency                  | 91.5%                   |
| Temperature Class           | T6                      |
| IP Standard                 | IP 60                   |
| Total Weight                | 6 Kg                    |
| Starting Time               | Instant ( 0.2 Sec)      |
| Light Spreading Angle       | 60°/90°/120°            |
| Guarantee                   | 3 Years on LED DRIVER   |
| Guarantee                   | 5 Years on COB LED      |
| Guarantee                   | 3 Years on FLUX/CCT/CRI |

| SPECIFICATIONS OF LED                       |  | MAKE : CITIZEN JAPAN    |
|---|--|-------------------------|
| Model No                                    | CLU-048-1212 V6                            |                         |
| LED type / No of LED Lamp                   | COB/ Single                                |                         |
| Total Lumen (As per simulation Tool)        |  | 12498                   |
| Lumen Efficacy (Lm/ Watt)                   |  | 136 lm/W @ 60° C LED Tc |
| Lumen Efficacy (Lm/ Watt) (Incl.all losses) |  | 125 lm/W @ 60° C LED Tc |
| Color / Color Rendering index               |  | CCT 6500K / RA 70       |
| SP Ratio                                    | 2.25                                       | 2.25                    |
| MAC ADAM ELIP STAGE                         | STEP 3                                     |                         |
| LED -Wattage/Current/Voltage                | 94 W / 2480 ma /37.85 V                    |                         |
| Lamp Life                                   | 1,60,000 Hours Min.                        |                         |
| Certifications / Reports                    | LM80/Photo Bio. Test                       |                         |
| Actual Tested Report                        | Actual Operating test Report for 63,000Hrs |                         |
| Identification Method                       | Unique Serial No. Printed on each Lamp     |                         |



**LED SPECTRUM**

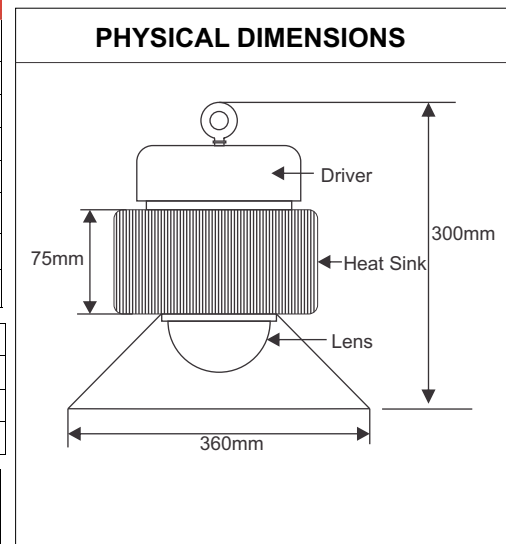


| SPECIFICATIONS OF LED DRIVER |   | MAKE - MEANWELL |
|------------------------------|---|-----------------|
| Model No                     | ELG-100-42  |                 |
| Type of Driver               | Constant Current                                  |                 |
| Input Voltage Range          | 90 - 295 VAC, 127 - 417 VDC                       |                 |
| Frequency Range              | 47 - 63 Hz  |                 |
| Inrush current               | Cold Start 60A                                    |                 |
| Leakage current              | 0.75mA/ 277VAC                                    |                 |
| Output Protection            | Short Circuit, Over Voltage/ Current/ Temperature |                 |
| Withstand Voltage            | I/P-O/P : 3.75KVAC                                |                 |
| Surge Protection             | Line-Earth 6KV, Line-Line 4KV                     |                 |
| MTBF /DMTBF                  | 282.9Khrs min                                     |                 |
| Capacitor Life Cycle         | 52859 Hrs @ 60°C                                  |                 |

| SPECIFICATIONS OF OPTICS |                    |
|--------------------------|--------------------|
| Optics Type              | Glass Lens         |
| MOC of Optics            | Borosilicate Glass |
| Optics Efficiency        | 96%                |

| SPECIFICATIONS OF FIXTURE \ HEAT SINK |                           |
|---------------------------------------|---------------------------|
| Make of Fixture                       | Eminent Lighting Company  |
| Certification                         | IP 60                     |
| MOC Fixture                           | Aluminum Extrusion - 6063 |
| Junction Temperature -Tj              | 95°C                      |
| Case Temperature- Tc                  | 62.4°C                    |

**PHYSICAL DIMENSIONS**



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## THERMAL PHOTOGRAPHS



**NOTE :**

The product & specification may change for improvement without prior information.