

**The Eternal Fluorescent Lamp** is a high-tech light source with the advantages of super long life, high lumen efficacy, energy saving, environment protection. Our diversified product lines with different models, types and CCTs can be widely applied in commercial, industrial, infrastructure, and institutional lighting.

**1. Working Condition Requirements**

Power System: 250V-305V/60Hz (**277V**)      198V-265V/50Hz (**220V**)      108V-132V/60Hz (**120V**)

Ambient Temperature: -25 C to +50 C

RH: No more than 90%

There is no corrosive, explosive, combustable substance and electric particles in the place where the lamp is working.

**2. Self-Ballasted Models and Shapes**



**3. Externally Ballasted Models and Shapes**



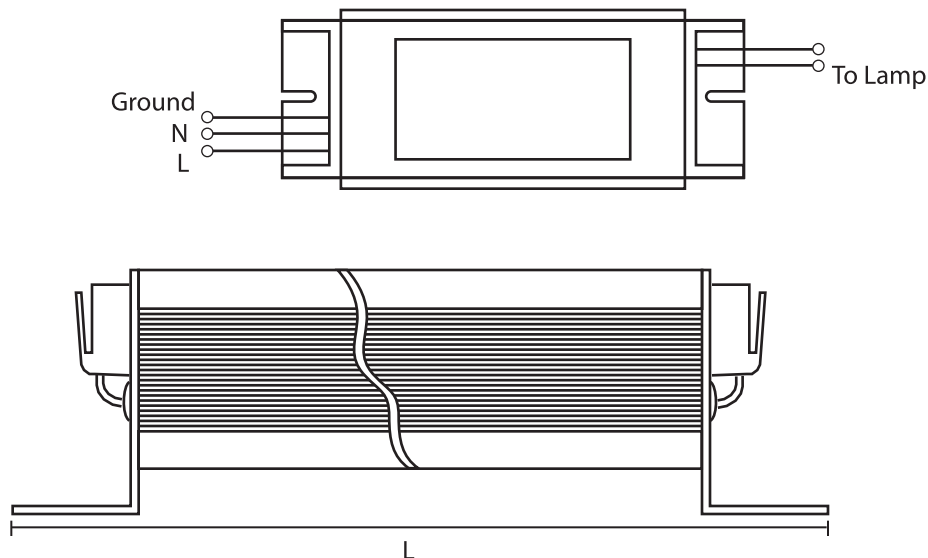
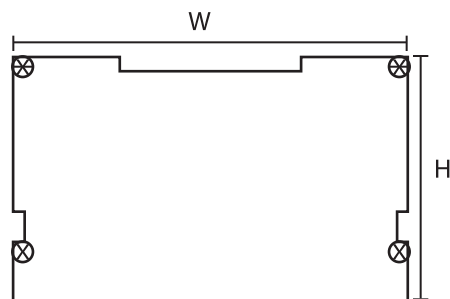
**4. Specifications for Self-Ballasted Model**

| Model      | CRI | Lumen Output (Lm) | Voltage Range | Working Frequency | Current (A) (220V/50Hz) | Tube Temperature | Dimension (in) |
|------------|-----|-------------------|---------------|-------------------|-------------------------|------------------|----------------|
| M120V-23W  | 88  | 1200-1400         | 108-132V      | 210kHz            | 0.46A                   | 60 C - 90 C      | W3.1 x H7.0    |
| M120V-40W  | 88  | 2400-2800         | 108-132V      | 210kHz            | 0.67A                   | 85 C-115 C       | W4.6 x H9.7    |
| CC120V-40W | 88  | 2400-2800         | 108-132V      | 210kHz            | 0.71A                   |                  | W6.5 x H7.0    |

**5. Specifications for Externally Ballasted Models**

| Model     | WATTS | CRI | Lumen Output (Lm) | Pupel Lumens |       |       | Tube Temperature | Dimension (in)  |
|-----------|-------|-----|-------------------|--------------|-------|-------|------------------|---|
|           |       |     |                   | 2700K        | 3500K | 5000K |                  |   |
| MG-JXCB15 | 15W   | 88  | 688-825           | 688          | 938   | 1304  | 35 C - 65 C      | L2.3 x H4.9   |
| MG-JXCB23 | 23W   | 88  | 1500-1750         | 1500         | 2015  | 2765  | 60 C - 90 C      | L3.1 x H5.3   |
| C-GYTX40  | 40W   | 88  | 3000-3500         | 3000         | 4030  | 5530  | 75 C - 105 C     | Φ 6.0 x H3.3  |
| C-GYTX80  | 80W   | 88  | 7250-8750         | 7250         | 9920  | 13825 | 85 C - 115 C     | Φ 8.5 x H3.7  |
| C-GYTX120 | 120W  | 88  | 10813-12000       | 10813        | 14144 | 18960 | 90 C - 120 C     | Φ 10.8 x H3.7   |
| C-GYTX150 | 150W  | 88  | 13500-15000       | 13500        | 17670 | 23700 | 95 C - 125 C     | Φ 12.0 x H3.7   |
| C-GYTX200 | 200W  | 88  | 19250-22500       | 19250        | 25885 | 35550 | 95 C - 125 C     | Φ 12.4 x H4.1   |
| Q-GYLL40  | 40W   | 88  | 3000-3500         | 3000         | 4030  | 5530  | 75 C - 105 C     | 7.1 x 4.5 x 3.3                                       |
| Q-GYLL80  | 80W   | 88  | 7250-8750         | 7250         | 9920  | 13825 | 85 C - 115 C     | 11.1 x 5.5 x 3.7                                      |
| Q-GYLL120 | 120W  | 88  | 10813-12000       | 10813        | 14144 | 18960 | 90 C - 120 C     | 13.9 x 5.5 x 3.7                                      |
| Q-GYLL150 | 150W  | 88  | 13500-15000       | 13500        | 17670 | 23700 | 95 C - 125 C     | 15.0 x 5.5 x 3.7                                      |
| Q-GYLL200 | 200W  | 88  | 19250-22500       | 19250        | 25885 | 35550 | 95 C - 125 C     | 19.0 x 5.75 x 4.1 (long)<br>17.0 x 5.75 x 4.1 (short) |

## 7. Ballast Model and Shape



## 8. Specifications for Ballast

|             | Model           | Watts | Voltage Range | Working Frequency | Current (A) | Power Factor | Ambient Temperature Range | Surface Temperature (at 25 C of Ambient Temp)... | Space (Tube & Ballast) | Dimension (in) |
|-------------|-----------------|-------|---------------|-------------------|-------------|--------------|---------------------------|--|------------------------|----------------|
| 220V        | DQF220V/50Hz40  | 40W   | 175-265V      | 210kHz            | 0.23A       | 0.98         | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W3.8*H2.3 |
|             | DQF220V/50Hz80  | 80W   | 175-265V      | 210kHz            | 0.42A       | 0.98         | -35 C - 50 C              | 35 C   | ≤5M                    | L8.4*W3.8*H2.3 |
|             | DQF220V/50Hz120 | 120W  | 175-265V      | 210kHz            | 0.60A       | 0.98         | -35 C - 50 C              | 36 C   | ≤5M                    | L9.4*W4.1*H2.4 |
|             | DQF220V/50Hz150 | 150W  | 175-265V      | 210kHz            | 0.74A       | 0.98         | -35 C - 50 C              | 38 C   | ≤5M                    | L9.4*W4.1*H2.4 |
|             | DQF220V/50Hz200 | 200W  | 175-265V      | 210kHz            | 1.06A       | 0.98         | -35 C - 50 C              | 42 C   | ≤5M                    | L9.4*W4.7*H2.9 |
| 120V        | DQF120V/60Hz40  | 40W   | 90-150V       | 210kHz            | 0.38A       | 0.98         | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W3.8*H2.3 |
|             | DQF120V/60Hz80  | 80W   | 90-150V       | 210kHz            | 0.74A       | 0.98         | -35 C - 50 C              | 35 C   | ≤5M                    | L8.4*W3.8*H2.3 |
|             | DQF120V/60Hz120 | 120W  | 90-150V       | 210kHz            | 1.08A       | 0.98         | -35 C - 50 C              | 36 C   | ≤5M                    | L9.4*W4.1*H2.4 |
|             | DQF120V/60Hz150 | 120W  | 90-150V       | 210kHz            | 1.35A       | 0.98         | -35 C - 50 C              | 38 C   | ≤5M                    | L9.4*W4.1*H2.4 |
|             | DQF120V/60Hz200 | 120W  | 90-150V       | 210kHz            | 1.86A       | 0.98         | -35 C - 50 C              | 42 C   | ≤5M                    | L9.4*W4.7*H2.9 |
| 277V        | DQF277V/60Hz40  | 40W   | 250-305V      | 210kHz            | 0.16A       | 0.90         | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W3.8*H2.3 |
|             | DQF277V/60Hz80  | 80W   | 250-305V      | 210kHz            | 0.32A       | 0.90         | -35 C - 50 C              | 35 C   | ≤5M                    | L8.4*W3.8*H2.3 |
|             | DQF277V/60Hz120 | 120W  | 250-305V      | 210kHz            | 0.48A       | 0.90         | -35 C - 50 C              | 36 C   | ≤5M                    | L9.4*W4.1*H2.4 |
|             | DQF277V/60Hz200 | 120W  | 250-305V      | 210kHz            | 0.80A       | 0.90         | -35 C - 50 C              | 42 C   | ≤5M                    | L9.4*W4.7*H2.9 |
| LOW VOLTAGE | DQF12V23        | 23W   | 9.5-16V       | 210kHz            | 2.00A       | n/a          | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W2.9*H2.0 |
|             | DQF12V40        | 40W   | 9.5-16V       | 210kHz            | 3.80A       | n/a          | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W2.9*H2.0 |
|             | DQF12V15        | 15W   | 18-29V        | 210kHz            | 0.65A       | n/a          | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W2.9*H2.0 |
|             | DQF12V23        | 23W   | 18-29V        | 210kHz            | 1.00A       | n/a          | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W2.9*H2.0 |
|             | DQF12V40        | 40W   | 18-29V        | 210kHz            | 1.90A       | n/a          | -35 C - 50 C              | 32 C   | ≤5M                    | L8.4*W2.9*H2.0 |

## 9. Caution when Connecting

- (1) Do not connect the ballast and the lamp prior to connecting "L" and "N" end of ballast with the power.
- (2) Both the rated wattage of the lamp and the rated wattage of ballast must be the same
- (3) You must connect the Yellow/Green cable to a ground to avoid voiding the warranty
- (4) Please make sure the ballast is correctly connected with the lamp before switching on.