

# DM HIGH END WATERPROOF SERIES IP68

## 12V/24V 36W-400W



\*Outdoor LED Lighting, Underwater Lighting, Marine and Dock Lighting, Swimming Pools and Fountains, Parking Lots and Building Exteriors

### FEATURE

- ◎ Wide Temperature Range, Sealed Housing
- ◎ High efficiency above 90%
- ◎ 5Years warranty. Durability in Harsh Conditions
- ◎ IP68 design for indoor and outdoor use
- ◎ All 100% aging test and full load
- ◎ Protection over voltage, over current, short

### PRODUCT PARAMETERS

CE FC CQC SAA RoHS

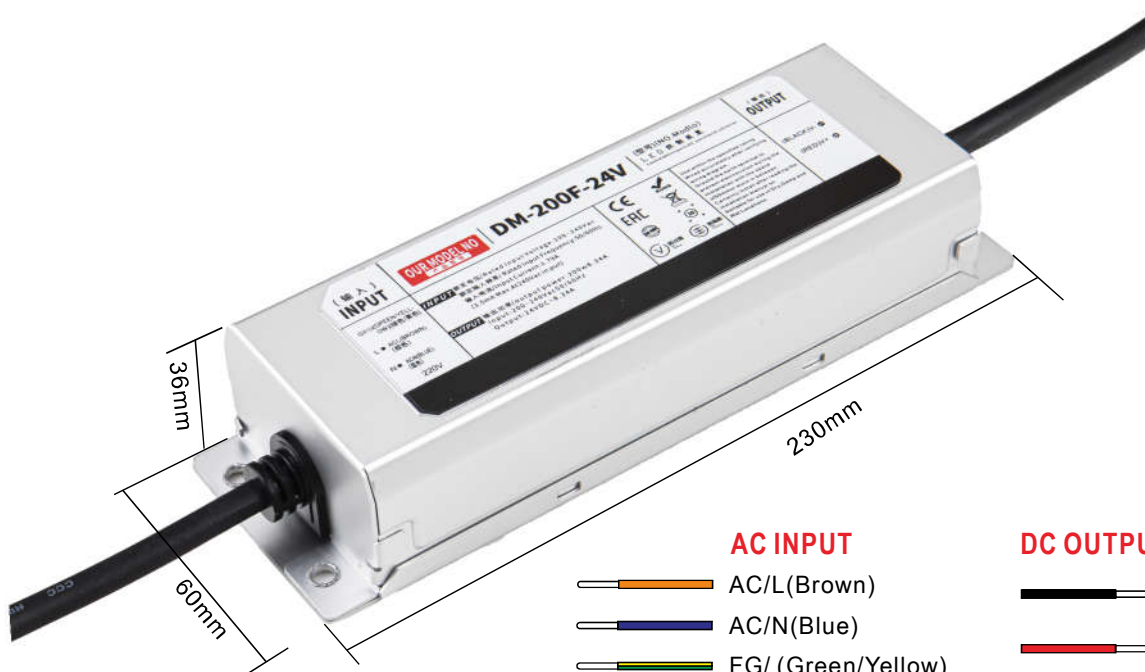
| Model     | Pout | Vin         | Vout      | Iout        | Effi | IP   | Size(mm)  | Weight(g) | Cooling         |
|-----------|------|-------------|-----------|-------------|------|------|-----------|-----------|-----------------|
| DM-36-12  | 36W  | 200-240V AC | DC12V/24V | 3.0A/1.5A   | 93%  | IP68 | 126*41*27 | 217g      | Natural Cooling |
| DM-60-12  | 60W  | 200-240V AC | DC12V/24V | 5.0A/2.5A   | 93%  | IP68 | 143*49*31 | 255g      | Natural Cooling |
| DM-100-12 | 100W | 200-240V AC | DC12V/24V | 8.3A/4.1A   | 93%  | IP68 | 164*53*31 | 505g      | Natural Cooling |
| DM-150-12 | 150W | 200-240V AC | DC12V/24V | 12.5A/6.25A | 93%  | IP68 | 176*57*34 | 898g      | Natural Cooling |
| DM-200-12 | 200W | 200-240V AC | DC12V/24V | 16.7A/8.33A | 92%  | IP68 | 186*60*36 | 982g      | Natural Cooling |
| DM-300-12 | 300W | 200-240V AC | DC12V/24V | 25.0A/12.5A | 90%  | IP68 | 200*67*36 | 1085g     | Natural Cooling |
| DM-400-12 | 400W | 200-240V AC | DC12V/24V | 33.3A/16.7A | 90%  | IP68 | 230*67*36 | 1110g     | Natural Cooling |

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**DM-200W 12V**

| MODEL                          | LED POWER SUPPLY                                                                                                                                                                                                                                                                                                                              | DM-200W 12V                                                                                                                     | DM-200W 24V  |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------|
| OUTPUT                         | Output voltage                                                                                                                                                                                                                                                                                                                                | 12V DC                                                                                                                          | 24V DC       |
|                                | Output voltage range                                                                                                                                                                                                                                                                                                                          | 12VDC±0.5VDC                                                                                                                    | 24VDC±0.5VDC |
|                                | Output Current                                                                                                                                                                                                                                                                                                                                | Max 16.7A                                                                                                                       | Max 8.3A     |
|                                | Output power                                                                                                                                                                                                                                                                                                                                  | Max 200W                                                                                                                        |              |
|                                | Output power range                                                                                                                                                                                                                                                                                                                            | 0~200W                                                                                                                          |              |
|                                | Ripple & Noise                                                                                                                                                                                                                                                                                                                                | ≤120mV                                                                                                                          | ≤240mV       |
|                                | Linear Regulation                                                                                                                                                                                                                                                                                                                             | ±1%                                                                                                                             |              |
|                                | Load Regulation                                                                                                                                                                                                                                                                                                                               | ±1%                                                                                                                             |              |
|                                | Start-up Time (Typ)                                                                                                                                                                                                                                                                                                                           | 600ms/230VAC                                                                                                                    |              |
|                                | Hold Up Time(Typ)                                                                                                                                                                                                                                                                                                                             | 100ms/230VAC                                                                                                                    |              |
| INPUT                          | Input voltage                                                                                                                                                                                                                                                                                                                                 | 200-240Vac                                                                                                                      |              |
|                                | Frequency                                                                                                                                                                                                                                                                                                                                     | 50/60Hz                                                                                                                         |              |
|                                | Input current                                                                                                                                                                                                                                                                                                                                 | 0.52A/230Vac                                                                                                                    |              |
|                                | Power factor                                                                                                                                                                                                                                                                                                                                  | PF>0.8                                                                                                                          |              |
|                                | No-load power consumption                                                                                                                                                                                                                                                                                                                     | ≤3W                                                                                                                             |              |
|                                | Efficiency (typ.)                                                                                                                                                                                                                                                                                                                             | 89%                                                                                                                             | 91%          |
|                                | Inrush current(typ.)                                                                                                                                                                                                                                                                                                                          | Cold start 50A at 230Vac                                                                                                        |              |
|                                | Control surge capability                                                                                                                                                                                                                                                                                                                      | L,N:2KV L,N-PE:4KV                                                                                                              |              |
|                                | Leakage current                                                                                                                                                                                                                                                                                                                               | Max. 0.5mA                                                                                                                      |              |
| ENVIRONMENT                    | Working temperature                                                                                                                                                                                                                                                                                                                           | ta: -30°C~ 50°C tc: 80°C                                                                                                        |              |
|                                | Working humidity                                                                                                                                                                                                                                                                                                                              | 20 ~ 99%RH, condensing (Waterproof)                                                                                             |              |
|                                | Storage temp., humidity                                                                                                                                                                                                                                                                                                                       | -40°C ~ 80°C, 10~95%RH                                                                                                          |              |
| PROTECTION                     | Overtemperature                                                                                                                                                                                                                                                                                                                               | Protection type: Turn off the output voltage, after the temperature drops, re-energize to restore.                              |              |
|                                | Over load protection                                                                                                                                                                                                                                                                                                                          | Shut down the output when current load above 110%~150%, auto recovers.                                                          |              |
|                                | Short circuit protection                                                                                                                                                                                                                                                                                                                      | Protection type: It can be automatically restored after the fault is eliminated.                                                |              |
| SAFETY&EMC                     | Withstand voltage                                                                                                                                                                                                                                                                                                                             | I/P-O/P:3750Vac                                                                                                                 |              |
|                                | Isolation resistance                                                                                                                                                                                                                                                                                                                          | I/P-O/P: 100MΩ/500VDC/25°C/70%RH                                                                                                |              |
|                                | Safety standards                                                                                                                                                                                                                                                                                                                              | IEC/EN61347;IEC/EN60950;IP67                                                                                                    |              |
|                                | EMC Test Standards                                                                                                                                                                                                                                                                                                                            | EN55015: 2013;EN61547: 2009; EN61000-3-2:2014; EN61000-3-3:2013                                                                 |              |
| Reliabilityand Quality Control | Impact aging                                                                                                                                                                                                                                                                                                                                  | 100% of the product is fully loaded and impacted for 4 hours under an environment of at least 40°C±5°C                          |              |
|                                | Component derating                                                                                                                                                                                                                                                                                                                            | Under the steady-state conditions of rated input and output, the stress of components will not exceed its maximum nominal value |              |
| NOTE                           | 1.All parameters not specifically mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.<br>2.Ripple and noise test method: connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure under 20MHZ bandwidth.<br>3.Ensure that the power supply is used under the rated parameters and environment. |                                                                                                                                 |              |

# DM-200W 12V



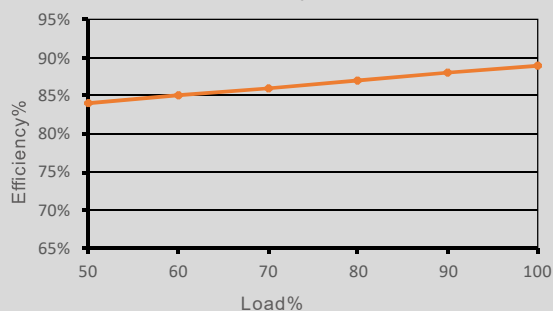
## AC INPUT

-  AC/L(Brown)
-  AC/N(Blue)
-  FG/ (Green/Yellow)

## DC OUTPUT

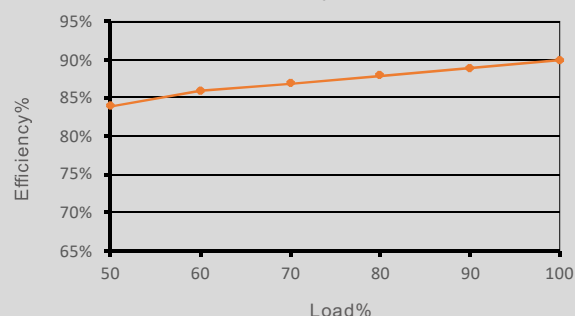
-  V-(Black)
-  V+(Red)

Efficiency vs Load



DM-12V 200W

Efficiency vs Load



DM-24V 200W

## Packaging Information

|             |                    |
|-------------|--------------------|
| DIMENSION   | 186*60*36(LxWxH)   |
| PACKING     | 190*63*39(LxWxH)   |
| PCS/CTN     | 20pcs              |
| CARTON SIZE | 510*320*400(LxWxH) |
| WEIGHT      | 550g±10g/PCS       |

## Temperature load curve

