

## LED Intelligent Driver



- Dimming interface: DMX512/RDM
- With RDM remote device management protocol.
- Supports DMX512 signal bi-directional communication.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.01% possible.
- 0~100% flicker-free, achieve the level of exemption assessment.
- Over load / Over-heat / Short circuit protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for internal lights application for I / II/III.

**T-PWM™**  
Super depth dimming technology

**Flicker-free**  
IEEE-PAR 1789

Dimmable:  
0.01-100%



SELV



RoHS



### Specification

| Model         | DMX-10-100-400-F1P1       | DMX-10-350-700-F1P1   |                           |  |
|---------------|---------------------------|---|---------------------------|--|
| OUTPUT        | Output Voltage            | 10-45Vdc  | 3-24Vdc                   |  |
|               | Max Output Voltage        | 47Vdc   | 26Vdc                     |  |
|               | Output Current            | 100-400mA   | 350-700mA                 |  |
|               | Output Power              | Max. 10W  |                           |  |
|               | Strobe Level              | Exemption assessment level.   |                           |  |
|               | Dimming Range:            | 0~100%, LED start at 0.01% possible.  |                           |  |
|               | LF current ripple(<120Hz) | <2%   |                           |  |
|               | Current Accuracy          | ±5%   |                           |  |
|               | Ripple & Noise            | ≤2V   |                           |  |
| PWM Frequency | 3600Hz                    |   |                           |  |
| INPUT         | Dimming Interface         | DMX/RDM   |                           |  |
|               | Input Voltage Range       | 100-240Vac  |                           |  |
|               | Frequency                 | 50/60Hz   |                           |  |
|               | Input Current             | 0.2A@115Vac, 0.1A@230Vac  | 0.2A@115Vac, 0.15A@230Vac |  |
|               | Efficiency                | >83%  | >82%                      |  |
|               | Inrush Current(typ.)      | Cold start 20A at 230Vac  |                           |  |
|               | Control surge capability  | L-N: 1kV  |                           |  |
|               | Leakage Current           | <0.5mA/230Vac   |                           |  |
| ENVIRONMENT   | Working Temperature       | ta: -30°C ~ 55°C tc: 80°C   |                           |  |
|               | Working Humidity          | 20 ~ 95%RH, non-condensing  |                           |  |
|               | Storage Temp., Humidity   | -40°C ~ 80°C, 10~95%RH  |                           |  |
|               | Temp. Coefficient         | ±0.03%/°C [0-50°C]  |                           |  |
|               | Vibration                 | 10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.                            |                           |  |
| PROTECTION    | Over Load Protection      | When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.  |                           |  |
|               | Over-heat Protection      | Shut down the output when PCB temp. ≥ 110°C, auto recovers when temp. back to normal.             |                           |  |
|               | Short Circuit Protection  | Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed. |                           |  |
| SAFETY & EMC  | Withstand Voltage         | I/P-O/P: 3750Vac  |                           |  |
|               | Isolation Resistance      | I/P-O/P: 100MΩ/500VDC/25°C/70%RH  |                           |  |
|               | Safety Standards          | IEC/EN61347-1, IEC/EN61347-2-13   |                           |  |
|               | EMC Emission              | EN55015, EN61000-3-2 Class C, IEC61000-3-3  |                           |  |
|               | EMC Immunity              | EN61000-4-2,3,4,5,6,8,11 EN61547  |                           |  |
|               | Strobe Test Standard      | IEEE-PAR 1789   |                           |  |
| OTHERS        | Dimension                 | 135×30×320mm(L×W×H)   |                           |  |
|               | Packing                   | 140×34×23mm(L×W×H)  |                           |  |
|               | Weight(G.W.)              | 80g±10g   |                           |  |

## LED Current Selection

Note: Please specify the output current when make orders.

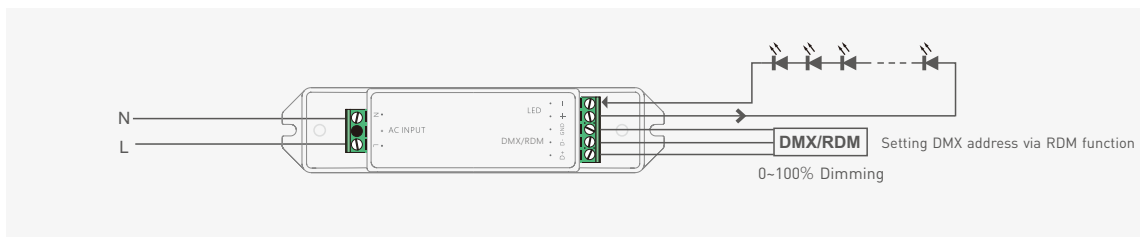
If you need to change the output current in special cases, please open the housing in outages and select the current by built-in DIP switch on the PCB.



| DIP Switch          |                | ↓ ↓ ↑  | ↓ ↑ ↓     | ↓ ↑ ↑  | ↑ ↓ ↓   | ↑ ↓ ↑  | ↑ ↑ ↓    | ↑ ↑ ↑  | ↑ ↓<br>ON OFF |
|---------------------|----------------|--------|-----------|--------|---------|--------|----------|--------|---------------|
| DMX-10-100-400-F1P1 | Output Current | 100mA  | 150mA     | 200mA  | 250mA   | 300mA  | 350mA    | 400mA  |               |
|                     | Output Voltage | 10-45V | 10-45V    | 10-45V | 10-40V  | 10-33V | 10-28V   | 10-25V |               |
|                     | Output Power   | 1-4.5W | 1.5-6.75W | 2-9W   | 2.5-10W | 3-9.9W | 3.5-9.8W | 4-10W  |               |

| DIP Switch          |                | ↓ ↓ ↓     | ↓ ↓ ↑    | ↓ ↑ ↓     | ↓ ↑ ↑   | ↑ ↓ ↓     | ↑ ↓ ↑    | ↑ ↑ ↓      | ↑ ↑ ↑    | ↑ ↓<br>ON OFF |
|---------------------|----------------|-----------|----------|-----------|---------|-----------|----------|------------|----------|---------------|
| DMX-10-350-700-F1P1 | Output Current | 350mA     | 400mA    | 450mA     | 500mA   | 550mA     | 600mA    | 650mA      | 700mA    |               |
|                     | Output Voltage | 3-24V     | 3-24V    | 3-22V     | 3-20V   | 3-18V     | 3-16V    | 3-15V      | 3-14V    |               |
|                     | Output Power   | 1.05-8.4W | 1.2-9.6W | 1.35-9.9W | 1.5-10W | 1.65-9.9W | 1.8-9.6W | 1.95-9.75W | 2.1-9.8W |               |

## Wiring Diagram



## Dimensions

Unit : mm

