



TMT LEDs USA LLC
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Technical Datasheet

Rev: Feb 2023

TDS-LDM0150P-24320-C22
 150W 24V Class 2 Constant Voltage LED Driver



LDM0150P-24320-C22

150W 24V Class 2
 Constant Voltage
 LED Driver

Ip68 and UL
 DRY/DAMP/WET
 Locations



Description

The LDM0150P is a 150W 24V, Class 2 Power Supply with 7 Years Warranty and High Power Factor Correction. It can be used in outdoor. It is UL Listed and safely can be used in Dry, Wet and Damp Locations.

it operates from 90-305V input Voltage. It is designed and manufactured for LED Signage Modules, LED Strips or Outdoor Contant Voltage oprated LED based products.

The High efficiency of these drivers and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To Ensure Trouble-free operation, protection Is provided against input surge, output over voltage, over current, short crcuit and over temperature.

Features

Waterproof (IP 68) and UL Dry/Damp/ Wet Locations

Class 2 Power Supply

Active Power Factor Correction

High Efficiency up to %93

Constant Voltage Output

input Surge Protection 2KV Line to Line and 4KV Line to Earth

All- Around Protection: OVP, OCP,SCP, OTP

7 Years Product Warranty

| Model Number | Output Voltage | input Voltage | OutPut Current | Max Output Power | Typical Efficiency | PFC |
|--------------------|----------------|---------------|----------------|------------------|--------------------|-------|
| LDM0150P-24320-C22 | 24V DC | 90-305V | 3.12A x 2 | 150W | >%93 | >0.95 |



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Input Specifications

| | Min | Max |
|------------------|-------|---------|
| input Voltage | 90VAC | 305VAC |
| Input Frequency | 47Hz | 63Hz |
| Leakage Current | | <0.75mA |
| Input AC Current | | 0.8 |
| Inrush Current | | <70A |
| Power Factor | | 0.95 |
| THD | | <%20 |

Output Specifications

| | Min | Max |
|--------------------------|----------|---------------|
| Output Voltage | 22.8V | 25.2V |
| Output Current | 3.12 x 2 | 3.12 x 2 |
| Output Voltage Tolerance | -%5 | %5 |
| Ripple And Noise | | %2 Vo |
| Output Overshoot | | %10 |
| Line Regulation | | (+)%5 |
| Load Regulation | | (+)%5 |
| Turn on Delay Time | | 1,5 Sn |
| Temperature Coefficient | | 0.02% Celcius |

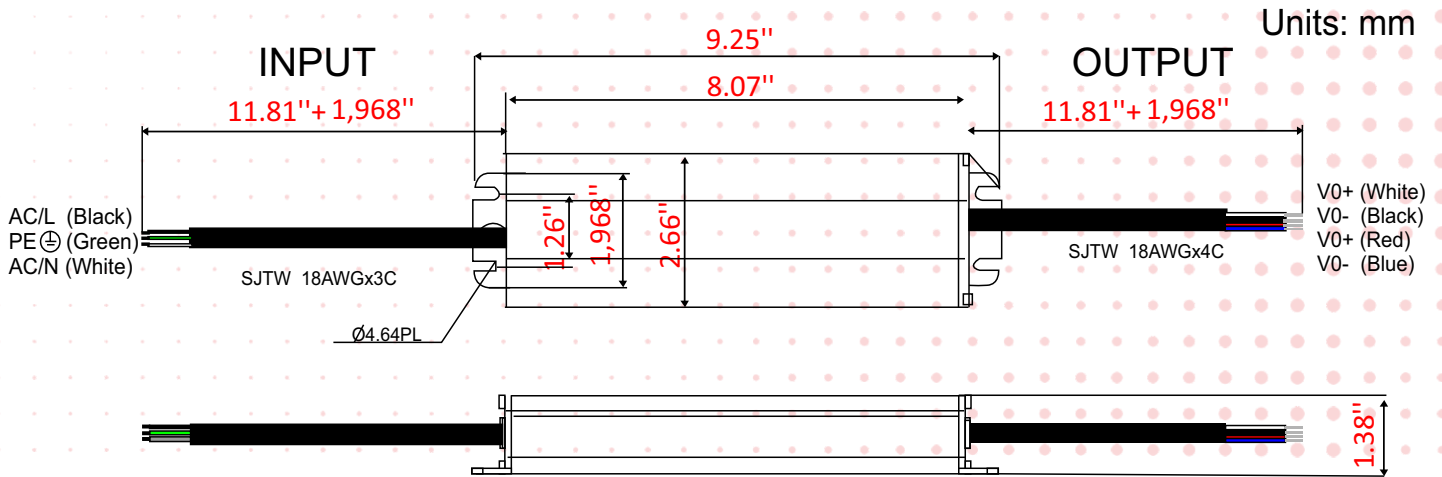
General Specifications

| | Min | Max | Notes |
|-----------------------------------|----------------------|---------------|-------------------------------------|
| Efficiency at 220Vac Input Vo=12V | %90 | %92 | |
| Efficiency at 110Vac Input Vo=12V | %91 | %93 | |
| No Load Power Dissipation | | 1 W | |
| MTBF | | 70.000 Hours | |
| Lifetime | | 50.000 Hours | Case Temperature 70 Degree %85 Load |
| Operating Case Temperature | (-)30 Celcius | (+)60 Celcius | |
| Storage Temperature | (-)40 Celcius | (+)85 Celcius | |
| Dimensions: | 8.07"x 2.66" x 1.38" | | |

Standards

| | |
|--------|--|
| UL/cUL | CCN: UYMR2/UYMR8 UL879 UL8750 FCC CLASS 2 CE ENEC05 CB |
| Others | EN 55015- EN 61000 - EN 61547 |

MECHANICAL DRAWING



LABEL DESIGN



L Black
G Green
N White

Input

TMT LEDs
For LED Only
Model No: LDM150P-2432-C22
Pin: 175W Po: 150W Efficiency >93% PF >0.95

LED Driver 150W

Constant Voltage Type
Input Voltage: 100-277V-50/60Hz
Input Current: 2.1A Max
Output 1: 24V ~ 3.2A
Output 2: 24V ~ 3.2A

Suitable for Dry, Damp and Wet Location

CAUTION
1. Do not put the product closely to heat source or flammable materials;
2. Right installation for easy heat conduction;
3. Do not touch the product when it's working.

Class 2 Power Supply
• ta: 50
• ta: 90

IP68 RoHS

7 Years Warranty

Date Code : YYWW

S/N: 307-05-XXX

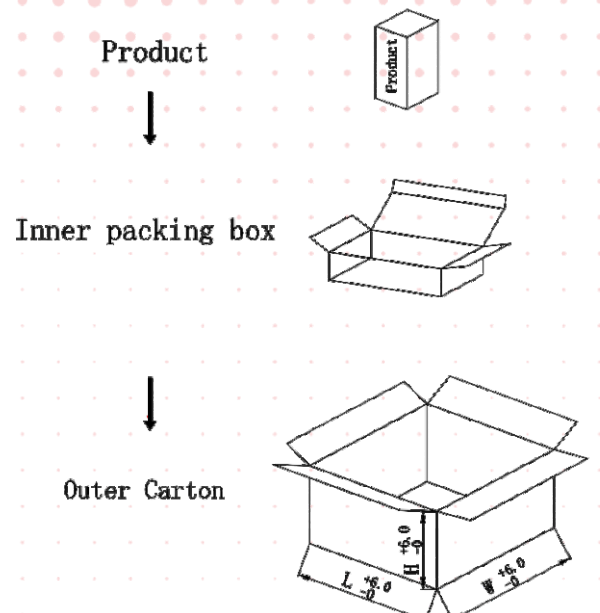
Output

24V

White ⊕
1 Black ⊖
2 Red ⊕
Blue ⊖

Packing Information

| | |
|---|-------------------------|
| Inner Box Dimensions | 12" x 3.94" x 1.77" |
| Outer Box Dimensions | 20.28" x 12.59" x 4.33" |
| Quantity Box | 10pcs |
| Weight Box | 24.25lb |
| Dimensions of Pallet | 43.3" x 43.3" x 81.49" |
| The Above Package quantity and weight are only for the pictorial package while for other package modes the package quantity and weight will be different. | |





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NOTES

- ➔ Metal Shell Power Supply, input ground must be connected with the earth reliably, can not be left floating and connected to zero line.
- ➔ Please Install the power Supply in a well-Ventilated place to ensure that the ambient temperature is suitable
- ➔ When more than one power supply is connected in parallel please pay special attention to carrying capacity of the power cord of the power grid
- ➔ When using the power supply, do not touch the surface of the metal shell, to avoid hot temperature burns
- ➔ Try to Avoid the installation of minefields, high pressure area
- ➔ If Something goes wrong, do not repair it by yourself. If you have questions, please contact the supplier.
- ➔ Please use professional staff to install the power supply, and understand the specifications of the electrical parameters of the indicators. Pay attention to the terminal contact area, to ensure effective and solid connections.
- ➔ Please pay attention to the use of power supply environment, regularly check whether there are security risk.
- ➔ We suggest to use power Supply not more than 85% of its rated power.
- ➔ For your any questions please get in touch to us through e-mail: info@tmtledsusa.com