



**TMT LEDs USA LLC**  
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# Technical Datasheet

Rev: Feb 2023

**TDS-LDM0150P-12416-C23**  
 150W Class 2 Constant Voltage LED Driver



**FC CE CB IP68**

## LDM0150P-12416-C23

150W Class 2  
 Constant Voltage  
 LED Driver

Ip68 and  
 UL DRY/DAMP/WET  
 Locations



### Description

The LDM0150P is a 150W, 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 %88

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
LDM150P-12416-C23	12V DC	90-305V	4.16A x 3	150W	>%93	>0.95



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## Input Specifications

	Min	Max
input Voltage	90VAC	305VAC
Input Frequency	47Hz	63Hz
Leakeage Current		<0,75mA
Input AC Current		0.8
Inrush Current		<70A
Power Factor		0.95
THD		<%20

## Output Specifications

	Min	Max
Output Voltage	11.4V	12.6V
Output Current		5A
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

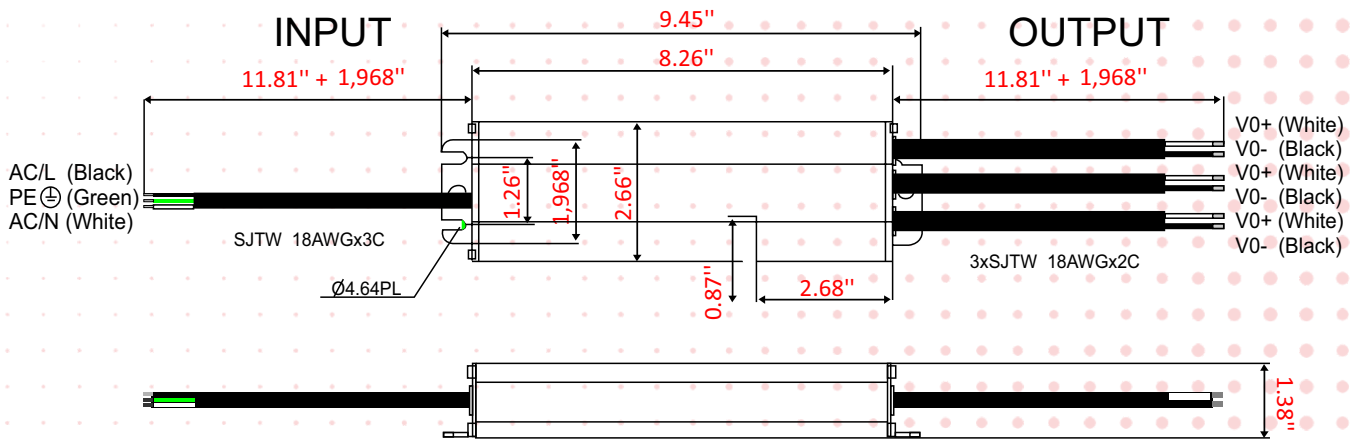
	Min	Max	Notes
Efficiency at 220Vac Input Vo=12V	%90	%92	
Efficiency at 110Vac Input Vo=12V	%91	%93	
No Load Power Dissipation		1 W	
MTBF		70.000 Hours	
Lifetime		50.000 Hours	Case Temperature 70 Degree %85 Load
Operating Case Temperature	(-)30 Celcius	(+)60 Celcius	
Storage Temperature	(-)40 Celcius	(+)85 Celcius	
Dimensions:	8.26"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

Units: mm



## LABEL DESIGN

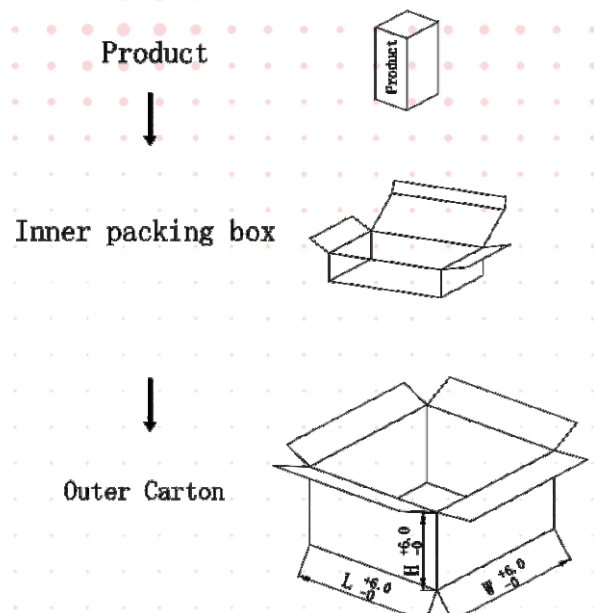
<b>Input</b> L Black G Green N White	 <b>LED Driver 150W</b> For LED Only Model No: LDM150P-1242-C23 Pin: 175W Po: 150W Efficiency >93% PF >0.95	 <b>Class 2 Power Supply</b> Suitable for Dry, Damp and Wet Location ta: 50 ta: 90	<b>7 Years Warranty</b> Date Code : YYWW S/N: 307-05-XXX	<b>Output</b> 12V White Black White Black White Black

**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.

## 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