



TMT LEDs USA LLC
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Technical Datasheet

Rev: Feb 2023

TDS-LDM60-1205-C21

60W Class 2 Constant Voltage LED Driver



FC CE CB IP68

LDM60-1205-C21

60W Class 2
 Constant Voltage LED Driver

Ip68 and
 UL DRY/DAMP/WET Locations



Description

The LDM060 is a 60W, Class 2 Power Supply which can be used in outdoor and UL Listed 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

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

5 Years Product Warranty

Model Number	Output Voltage	input Voltage	OutPut Current	Max Output Power	Typical Efficiency
LDM060-12050-C21	12V DC	90-305V	0-5A	60W	%88



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Input Specifications

	Min	Max
Input Voltage	90VAC	305VAC
Input Frequency	47Hz	63Hz
Leakage Current		<0,75mA
Input AC Current		1.06A
Inrush Current		<75A

Output Specifications

	Min	Max	Notes
Output Voltage Tolerance	-%5	%5	
Ripple And Noise		%2 Vo	Measured by 20 MHz Bandwidth oscilloscope and the paralleled a 0.1 uF Ceramic capacitor and 10 uF electrolycit Capacitor
Output Overshoot		%10	
Line Regulation		(+)%5	
Load Regulation		(+)%5	
Turn on Delay Time		1,5 Sn	
Temperature Coefficient		0.02% Celcius	

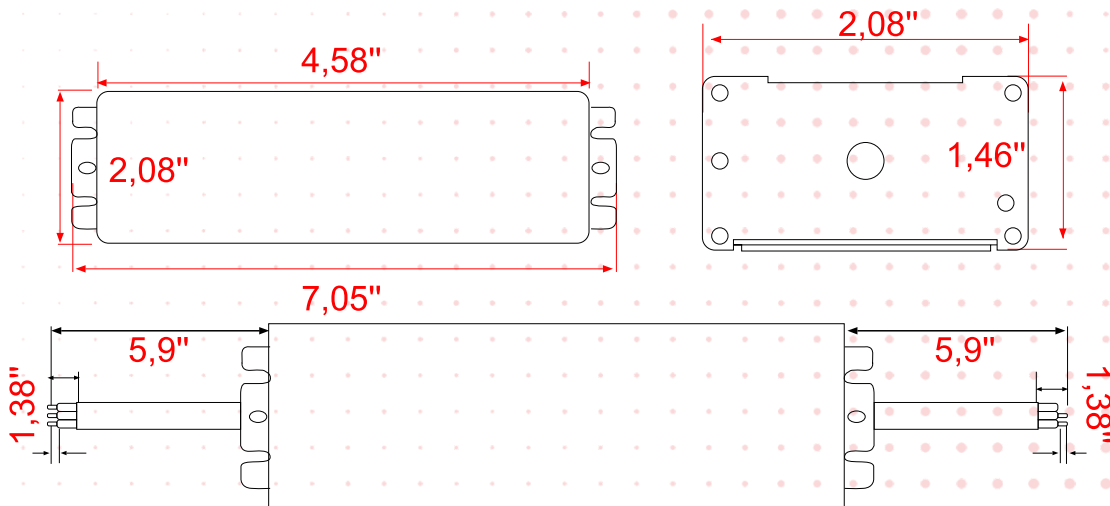
General Specifications

	Min	Max	Notes
Efficiency at 220Vac Input Vo=12V	%86	%88	
Efficiency at 110Vac Input Vo=12V	%85	%86	
No Load Power Dissipation		1 W	
MTBF		50.000 Hours	
Lifetime		50.000 Hours	Case Temperature 70 Degree %85 Load
Operating Case Temperature	(-)30 Celcius	(+)50 Celcius	
Storage Temperature	(-)40 Celcius	(+)85 Celcius	

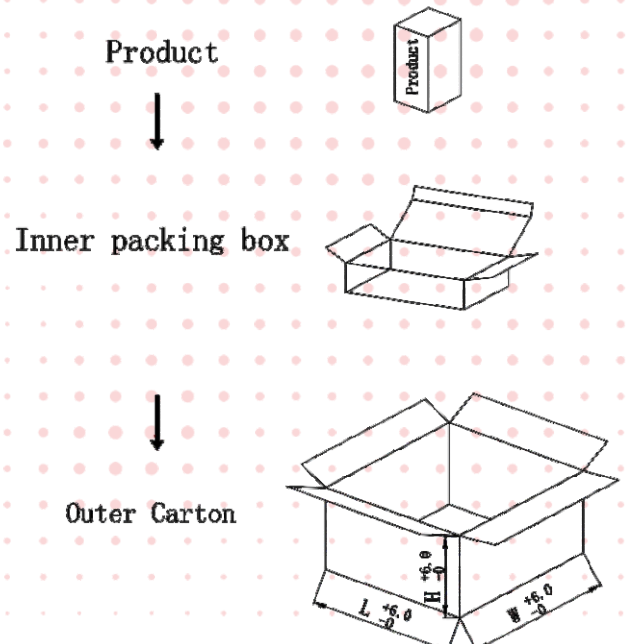
Standards

UL/cUL	CCN: UYMR2/UYMR8
Others	EN 55015- EN 61000 - EN 61547

MECHANICAL DRAWING



LABEL DESIGN



Packing Information

Inner Box Dimensions:	6.69" x 2.95"x1.57"
Outer Box Dimensions:	21.25" x 12.6" x 5.51"
Quantity Box	36pcs
Weight Box	39.6 Lbs



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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