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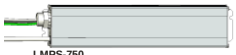
User Guide

LMPS-350 and LMPS-750

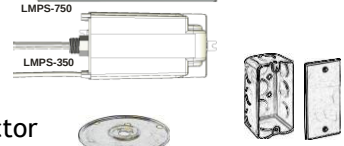
LMPS-350 without line cord # LMPS-120-35-0
LMPS-350 with line cord # LMPS-120-35-1
LMPS-750 # LMPS-120-75

Products, components & tools for easy installation

LMPS-xxx power supply



Electrical box



14 AWG electrical conductor

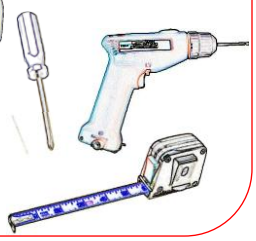
#8 fasteners

14 AWG wire connectors and cable connectors

Wire stripper / Cutter

Screw driver or power drill

Tape Measure



WARNING

Risk of electrical shock. Before installing, switch power off at the electrical panel and follow appropriate safety procedures.

Before installation. Prepare a layout, a required list of material and inspect the area of installation.

Loading. Factors can affect the loading of the power supply. The user shall ensure that maximum loading will not be exceeded.

Safe installation. The user is responsible for the safe electrical and mechanical installation of the power supply and of the suitability of the wiring system, mounting surfaces and hardware used. All equipment shall be installed in accordance with the electrical code in a neat and workmanlike manner. See NECA 1-2010 standard “Good Workmanship in Electrical Construction”.

Wiring. The user is responsible for proper selection of the electrical conductor type; see the requirements in technical bulletin #27 “Wiring for architectural applications”.

Class 2 circuit shall be physically separated from other circuit types.

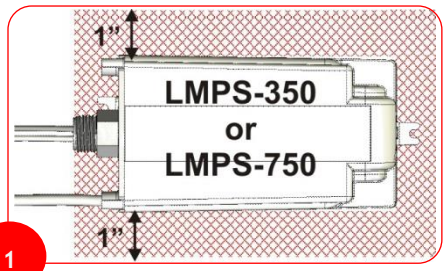
Characteristics

	LMPS-350	LMPS-750
Input Voltage	120 VAC ± 10%, 60 Hz	
Maximum Input Current	0.45 A	0.80 A
Output Voltage	10 VAC, 20 kHz (Class 2 compliant)	17 VAC, 16 kHz (Class 2 compliant)
Output Power	35 Watts	75 Watts
Power Factor	> 90%	
Ambient Operating Temperature	-40˚F to 122˚F (-40˚C to 50˚C)	
Operating Environment	Dry and damp locations	
Ingress Protection Rating	IP67	
Warranty	5 years	
Housing	White ABS plastic	Extruded aluminum
Certification	UL1310 Class 2 power units (SELV)	
	The LMPS-350 and LMPS-750 shall only be used with TFT Transfotec™ compatible products. Failure to comply will void all warranties and UL/ETL listing.	

Bill of Material & Layout

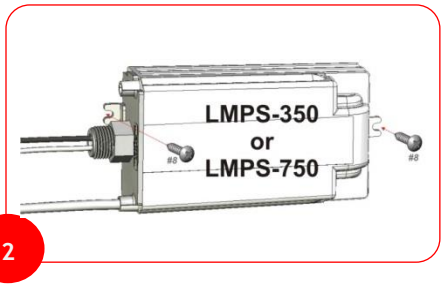
For material estimations, please refer to the *technical bulletin Architectural Lighting Applications Installation Guide* of the LED products connected to the power unit. Please also refer to the *Distance Factor Calculator* to ensure you have the correct loading on each power supply. For a free layout, please complete the layout request form on our website. For technical assistance, please contact us 1.800.665.1166.

Installation - LMPS-350 or LMPS-750



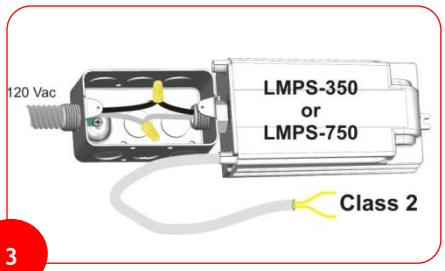
1

If more than one LMPS power supply is used, keep a minimal spacing of 1 inch between each power supply.



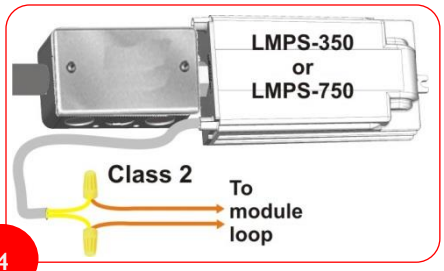
2

Secure the power supply with #8 screws.



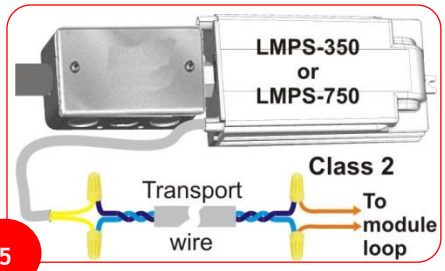
3

Secure the electrical box with #8 screws. Connect the AC line to the input wires using approved wire connectors. IMPORTANT - do not mix Class 1 wiring with Class 2 wiring.



4

Use 14 AWG wire to connect to the LED array (Contactless LED loop of modules or D-LEDbar™).



5

If the distance between the first LED module (or D-LEDbar™) and the LMPS power supply is >15 feet, please use 14 AWG twisted pair electrical wire as transport to the LED array.

Note: Please refer to the technical bulletin for further installation instructions.

Troubleshooting

Symptom	Solution
Some LED arrays on one power supply are dim or completely off.	• Verify all connections. LED arrays must be wired in series. • Check AC input and/or check circuit breaker.
All LED arrays on one power supply are dim or are flickering.	• Verify that the power supply is not overloaded. Revise the loading accordingly. • Verify that the correct model of power supply is used. • Verify that the correct distance factor was applied. • Verify that the correct extension wire is used.
Some LED arrays or one or many LEDs on a LED arrays do not light.	• Replace the affected LED arrays.
The splice connections are very hot.	• Verify that the splice connections are made with a splice connector approved for the purpose and that the connections are secured.

For further information, please refer to technical bulletin #5 Contactless LED System Troubleshooting.

Additional Information

- If you are using an LMPS-Dimmer, please refer to technical bulletin #11 *LMPS-Dimmer Architectural Lighting Installation Guide* for further instructions.
- Turn off power before installation, inspection, repair or removal.
- The user is responsible for proper selection of the electrical conductor type that will be used for the specific application; please refer to the requirements in technical bulletin #27 *Wiring for Architectural Applications*.
- Follow all National Electrical Codes (NEC) and local codes.
- TFT Transfotec™ makes no warranty expressed or implied as to the fitness of use of the products. Their use shall be solely by the judgment and at the risk of the user notwithstanding any statement in this technical bulletin.

Refer to the following literature for additional information:

- LMPS-350 Specification Sheet Document 11126.007.G1
- LMPS-750 Specification Sheet Document 11126.003.G2
- Technical bulletin #5 Contactless LED System Troubleshooting
- Technical bulletin #7 Virgolite™ Architectural Lighting Applications Installation Guide
- Technical bulletin #9 Virgo+™ LS1 Loading Instructions in Architectural Applications
- Technical bulletin #15 D-LEDbar™ Architectural Lighting Applications Installation Guide
- Technical bulletin #27 Wiring Guide
- Technical bulletin #34 Polyoptik™ Architectural Lighting Applications Installation Guide
- Technical bulletin #36 D-LEDbar™ Polyoptik™ Architectural Lighting Applications Installation Guide

For other configurations or general information, please contact TFT Transfotec™ **+1.888.653.3533. www.transfotec.com**