File E332160

Issued: 2013-05-31
Revised: 2015-10-21

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - When installed in the end-use equipment, the following are among the considerations to be made:
Conditions of Acceptability -

LED Driver, Conditions of Acceptability (FKSZ2/8):

1. The drivers shall be installed in compliance with the mounting, spacing, casualty, and segregation requirements of the ultimate application.

2. The drivers are suitable for use in "DRY" and "DAMP" locations

3. The connections leads are R/C (AVLV2), CSA Certified and provided as follows. The suitability is to be determined in the end-use application:
   A. Primary: 18 AWG, rated VW-1, 600 V, 105°C
   B. Output: 18 AWG, rated VW-1, 300 V minimum, 105°C
   C. Dimming: 22 AWG, rated VW-1, 300 V minimum, 105°C

*4. **For Type "TL" evaluation use**, the **driver** case temperature at Tc was monitored. During the normal temperature test of the end product, the temperature at Tc is to be monitored. The absolute value at T**c** shall not exceed the Tref max value (°C), noted in the product characteristics table. See ILL. 1 for "Tc" location.

For end-product applications, the driver case temperature shall be monitored at the "Tc" locations specified in ILL. 1 and the measured case temperature shall not exceed 90°C.

5. In the end-use application, drivers with output voltage of 30 V continuous DC but less than 60 V continuous DC are considered to supply "Class 2 Not Wet, Class 3 Wet." Therefore, if the wiring extends into areas where wet contact is likely, this indicates that Class 3 wiring is required to be used in accordance with Article 725 of the National Electrical Code.

6. The suitability of the housing of these drivers, as an ultimate enclosure, was not evaluated. Therefore, the drivers must be installed inside the enclosure of the end-use application.

7. The input and output leads were not subjected to the strain relief test. However, the drivers are completely filled with potting compound.

8. As required in paragraph 7.4.2.2 of UL8750 standard for Field-wiring leads, the primary, Green or Green/Yellow Stripe Grounding lead is 18-AWG that terminated in a closed loop crimp-on type connector that is directly secured to the housing of the driver by a screw and a press fit lug.

***9.** The dimming circuit is isolated from the primary circuit and is part of the "Class 2" output Secondary circuit.

***10.** Models PLED96W-054-C1750, PLED96W-048-C2000 and PLED96W-046-C2100 - Output voltages are greater than 42.4Vpk but meet the requirements of CSA C22.2 No. 250.13-14, Annex A and may be marked with "LED CLASS 2".

***11.** Products marked "HL" shall be fully potted, where components are fully submerged in potting.

Sign Component, Conditions of Acceptability (UYMR2/8):

1. In the end product, the Sign Accessories power supply spacing to other heat producing components shall be at least 25.4 mm (1in) from end to end and 101.6 mm (4 in) from side to side.

2. The Sign Accessories products shall be enclosed in the end product.

3. The Sign Accessories products are suitable for factory wiring only.

4. The Sign Accessories products are intended for use in a dry or damp locations only.

5. The suitability of input/output leads and the wring shall be determined in end product use.

6. The need to conduct temperature, ground continuity and current leakage tests shall be considered in the end product applications.

7. Power supplies Model PLED96W-024, has been evaluated to Class 2 output requirements for dc circuits with maximum of One Class 2 output.

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These products been evaluated for the following characteristics.

Model No.	Input type	Output type	Product is rated	Type HL (c)	Type TL (d)
PLED96W-020, PLED96W-024, PLED96W-025, PLED96W-027, PLED96W-030, PLED96W-034, PLED96W-036, PLED96W-039	Branch Circuit (Mains)	CV Output is Isolated Class 2 (a)	Dry & Damp	Yes	Yes Tref max/ Measured Tref 83/ 54° C
PLED96W-020-C4800, PLED96W-024-C4000, PLED96W-025-C3840, PLED96W-027-C3500, PLED96W-030-C3150, PLED96W-034-C2800, PLED96W-036-C2660, PLED96W-039-C2450		CC Output is Isolated Class 2 (a)			
PLED96W-054, PLED96W-048, PLED96W-046		CV Output is isolated Class 2 (a) per UL 8750, clause 7.12.1, and LED Class 2 (b2)			
PLED96W-054-C1750, PLED96W-048-C2000, PLED96W-046-C2100		CC Output is isolated Class 2 (a) per UL 8750, clause 7.12.1, and LED Class 2 (b2)			

NOTES:9
a- As defined in UL 8750, Clause 7.12.1 and CAN/CSA-C22.2 No. 250.13, Clause 8.12
b2- As defined in CAN/CSA-C22.2 No. 250.13, Annex A
c- Evaluated per UL 8750 requirements for Type HL LED drivers
d- Evaluated per UL 8750 requirements for Type TL LED drivers

PLED96W Hot Spot Location