File E328847 Project 4786087925.2.1

2014-01-17

REPORT

On

COMPONENT - DRIVERS FOR LIGHT-EMITTING-DIODE ARRAYS, MODULES AND CONTROLLERS

Antron Electronics Co. Ltd Tainan Hsien Taiwan

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DESCRIPTION

PRODUCT COVERED:

USR/CNR - LED Drivers, Models AC-150CD3.0UVTS, AC-100CD2.8ADQV, AC-150CD2.1ATDD, AC-108CD2.0ATKS, AC-150CD1.5ABZ, AC-150CD1.4ALH, AC-150CD1.3AAY, AC-115CD1.2ACA, AC-84CD1.05UVQS, AC-150CD700UVTS, AC-150CD700APE, AC-150CD700ATG, AC-150CD1.05ARN, AC-150CD3.0AQQT, AC-150C3.0AQUL, AC-100CD700UVH, and AC-91C1.6UV-QS, where "D" indicates dimmable, and YY may be D2, D3 or D4 to indicate 2, 3 or 4 switchable output currents.

GENERAL:

The units are switch-mode constant-current isolating power supplies. The units consist of an isolation transformer and other related electronic circuitry connected in the end-use application via an input and output pigtail leads. The unit is also provided with 0-10V input dimming leads.

Cat. No.	Input Voltage (V)	Frequency (Hz)	Input Current (A)	Max Output Voltage (Vdc)	Max Output Current (mA)
AC-150CD3.0UVTS AC-100CD2.8ADQV	120-277	50/60	1.45-0.64	50	3000
AC-50CD2.1ATDD AC-08CD2.0ATKS	120-277	50/60	1.45-0.64	72	2100
AC-150CD1.4ALH AC-150CD1.5ABZ	120-277	50/60	1.45-0.64	100	1500
AC-150CD1.3AAY	120-277	50/60	1.45-0.64	115	1300
AC-115CD1.2ACA	120-277	50/60	1.2-0.52	96	1200
AC-150CD1.05ARN AC-150CD3.0AQQT AC-150C3.0AQUL AC-150CD3.0ATSH	120-277	50/60	1.45-0.64	142	1050
AC-4CD1.05UVQS	120-277	50/60	0.79-0.34	80	1050
AC-150CD700AVV AC-50CD700UVTS AC-150CD700APE AC-150CD700ATG	120-277	50/60	1.45-0.64	214	700
AC-100CD700UVH	120-277	50/60	1.0-0.42	143	700
AC-91C1.6UV-QS	120- 277	50/60	0.38-0.86	58	1600

ELECTRICAL RATINGS:

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TECHNICAL CONSIDERATIONS (NOT FOR UL FIELD REPRESENTATIVE USE):

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

USR - Indicates investigation to the United States requirements UL Standard for Safety for Light Emitting Diode (LED) Equipment for Use In Lighting Products, UL 8750 and the Standard for Class 2 Power Units, UL 1310.

CNR indicates investigation to Canadian Standard for Light Emitting Diode (LED) Equipment for Lighting Applications, CAN/CSA C22.2 No. 250.13-12 and Power Supplies with Extra-Low-Voltage Class 2 Outputs, CAN/CSA C22.2 No. 223-M91

CN - Either the Canadian Standards Association Certification or Component Acceptance Mark or the UL Listing or UL Recognition Mark for Canada.

PWB spacings have been evaluated in accordance with an Overvoltage Category II and Pollution Degree 1 (potted enclosure) per Clause 7.8.3 and Table 7.4 of UL 8750 with live parts to enclosure spacings evaluated per Table 7.6 and CSA C22.2 No. 250.13-12, Clause 8.7.3, Table 5 with live parts to enclosure spacings evaluated per Table 7.

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

- 1. The LED drivers have been evaluated using an electronic or resistive load resulting in the rated output current.
- *2. All units utilize a Class F insulation system for the isolation transformer (T3). The maximum recorded temperature was 113.5°C on the transformer coil C when tested at an ambient of 55°C. The temperature on the enclosure shall not exceed 90°C at the Tc point.

For Model AC-91C1.6UV-QS, the maximum recorded temperatures were 106°C on the transformer coil, and 86°C on the Tc point when tested at an ambient of 40°C.

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- 3. The products were tested while connected to a 20A branch circuit.
- 4. The Leakage current test was conducted.
- 5. The enclosure is required to be grounded in the end-use application.
- 6. Suitable for dry or damp locations.