DESCRIPTION
PRODUCT COVERED:

USR/CNR – LED Drivers, Models AC-150CD3.0UVTS, AC-150C3.0UV-TS, AC-150CD3.0ATSH, AC-150CD3.0AQQT, AC-150C3.0AQUL, AC-100CD2.8ADQV, AC-140CD2.8AQXX, AC-150CD2.8AYL, AC-150CD2.1ATDD, AC-108CD2.0ATKS, AC-150CD1.5ABZ, AC-150CD1.4ALH, AC-150CD1.05AZT, AC-150CD1.3AAY, AC-115CD1.2ACA, AC-150CD1.05ARN, AC-84CD1.05UVQS, AC-150CD700UVTS, AC-150CD700APE, AC-150CD700ATG, AC-150CD700ATKX, AC-150CD700AVV, AC-150CD700AZB, **AC75CE700APTO7**, AC60CE700AN5, AC-100CD700UVH, and AC-91C1.6UV-QS AC-74CD1.4ATSS, where optional "D" indicates dimmable, and YY may be D2, D3 or D4 to indicate 2, 3 or 4 switchable output currents,

AC98CD2.45AQBPV, AC-25CD1.25APUM, AC-25CD1.25APUN, AC130CD3.1AQBWA, (where "x" may be any alphanumeric character, "-" or blank).

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.

ELECTRICAL RATINGS:

Cat. No.	Input Voltage (V)	Frequency (Hz)	Input Current (A)	Max Output Voltage (Vdc)	Max Output Current (mA)	Driver Type
AC-150CD3.0UVTS AC-150C3.0UV-TS AC-150CD3.0ATSH AC-150CD3.0AQQT AC-150C3.0AQUL AC-100CD2.8ADQV	120-277	50/60	1.45-0.64	50	3000	--
* AC-140CD2.8AQXX AC-150CD2.8AYL	120-277	50/60	1.45-0.64	52	2800	--
AC-150CD2.1ATDD AC-108CD2.0ATKS	120-277	50/60	1.45-0.64	72	2100	--
AC - 150CD1.5ABZ AC-150CD1.4ALH AC-150CD1.05AZT	120-277	50/60	1.45-0.64	100	1500	--
AC-150CD1.3AAY	120-277	50/60	1.45-0.64	115	1300	--
AC-150CD1.05ARN	120-277	50/60	1.45-0.64	142	1050	--
AC-115CD1.2ACA	120-277	50/60	1.2-0.52	96	1200	--
AC-84CD1.05UVQS	120-277	50/60	0.79-0.34	80	1050	--

AC-150CD700UVTS AC-150CD700APE AC-150CD700ATG AC-150CD700ATKX AC-150CD700AVV AC-150CD700AZB	120-277	50/60	1.45-0.64	214	700	--
AC75CE700APTO7 AC60CE700AN5 AC-100CD700UVH	120-277	50/60	1.0-0.42	143	700	--
AC-91C1.6UV-QS AC-74CD1.4ATSS	120-277	50/60	0.38-0.86	58	1600	--
AC98CD2.45AQBPV AC-25CD1.25APUM AC-25CD1.25APUN	120-277	50/60	0.93-0.4	47	2450	TL
AC130CD3.1AQBWA	120-277	50/60	1.45-0.64	43	3500	--

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.

The output has been evaluated as Low voltage Limited energy, Section 8.14 of UL 8750 for Models AC-150CD2.8AYL, AC-140CD2.8AQXX only.

CNR indicates investigation to Canadian Standard for Light Emitting Diode (LED) Equipment for Lighting Applications, CAN/CSA C22.2 No. 250.13.

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, Clause 8.7.3, Table 5 with live parts to enclosure spacings evaluated per Table 7.

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 Models AC-91C1.6UV-QS, AC-74CD1.4ATSS, 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.

   For Models AC98CD2.45AQBPV, AC-25CD1.25APUM, AC-25CD1.25APUN, AC-98CD2.45AQPV, the maximum recorded temperatures were 82.1°C on the transformer coil, and 49.9°C on the Tc point when tested at an ambient of 40°C.

   For Model AC130CD3.1AQBWA, the maximum recorded temperatures were 81.9 °C on the transformer coil when tested at an ambient of 40°C.

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.

9. The following models were evaluated per the Temperature Limited (Type TL) requirements per Supplement SB of UL8750 and the measured Tref max temperature associated with the measured Tc and Ta values are as follows:

Model	Measured Tref Value (°C)	Tref max Value (°C)
AC98CD2.45AQBPV AC-25CD1.25APUM AC-25CD1.25APUN AC-98CD2.45AQPV	49.9	90

10. These LED drivers are provided with isolated output.