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REPORT

On

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

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Taiwan

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Class 2 LED Driver, Models AC-A25V12H2.08, AC-A25VD12H2.08, AC-A60V12H5.0, AC-60V12A5.0LL, AC-A60VD12H5.0, AC-60VD12A5.0LL, AC-A12V24H0.5, AC-A25V24H1.04, AC-A25VD24H1.04, AC-A25V24H1.04C, AC-A50V24H2.1C, AC-60V24A2.5PF, AC-A60V24H2.5, AC-A60VD24H2.5, AC-60VD24AER, AC-60VD24H2.5DK, AC-A100V24H4.1, ACA100VD24H4.1C, AC-A100VD24H4.1 AC100VD24A4.1PG, AC60VD48A1.25NA, AC-60VD36B1.7LW, **AC-60VD24B2.5LV**, AC-60VD12B5.0LU

## GENERAL:

The units are switch-mode isolating power supply with Class 2 output. The units consist of transformers and other related electronic circuitry provided with input/output pigtail leads or terminal block connectors for connection in the end-use application. Units with D suffix employ 0-10V dimming input leads.

## ELECTRICAL RATINGS:

Cat. No.	Input Voltage (V)	Input Current (A)	Output Voltage (Vdc)	Output Current (A)	Output Power (W)	
AC-A25V12H2.08	120-277	0.27-0.12	12	2.08	25	
AC-A25VD12H2.08		0.27-0.12	12	2.08	25	
AC-A60V12H5.0		0.61-0.27	12	5	60	
AC-A60VD12H5.0		0.61-0.27	12	5	60	
AC-60VD12A5.0LL						
AC-60VD12B5.0LU	<b>347</b>	<b>0.2</b>	<b>12</b>	<b>5</b>	<b>60</b>	
AC-A12V24H0.5	120-277	0.14-0.06	24	0.5	12	
AC-A25V24H1.04		0.26-0.12	24	1.04	25	
AC-A25VD24H1.04		0.26-0.12	24	1.04	25	
AC-A25V24H1.04C		0.26-0.12	24	1.04	25	
AC-A50V24H2.1C		0.49-0.21	24	2.1A	50	
AC-60V24A2.5PF		0.6-0.26	24	2.5	60	
AC-A60V24H2.5						
AC-A60VD24H2.5		0.6-0.26	24	2.5	60	
AC-60VD24AER		0.6-0.26	24	2.5	60	
AC-60VD24H2.5DK		0.6-0.26	24	2.5	60	
AC-A100V24H4.1		0.98-0.42	24	4.1	100	
AC-A100VD24H4.1		0.98-0.42	24	4.1	100	
AC100VD24A4.1PG						
ACA100VD24H4.1C		0.98-0.42	24	4.1	100	
<b>AC-60VD24B2.5LV</b>		<b>347</b>	<b>0.2</b>	<b>24</b>	<b>2.5</b>	<b>60</b>
AC-60VD36B1.7LW	<b>347</b>	<b>0.2</b>	<b>36</b>	<b>1.67</b>	<b>60</b>	
AC60VD48A1.25NA	<b>120-277</b>	<b>0.6-0.26</b>	<b>48</b>	<b>1.25</b>	<b>60</b>	



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

1. The power supply shall be installed in compliance with the enclosure, mounting, spacing, casualty, temperature, and segregation requirements of the end-use application.
- \*2. All units utilize a Class B **or F** primary to secondary isolation transformer (T2) except for **Model** ACA100VD24H4.1C which is designated T3.
- \*3. The drivers were temperature tested in a static oven **at temperature as outline in the table below**. The maximum temperatures recorded on the **isolation** transformer and the enclosure above the transformer is as follows:

Model	Coil Temp (°C)	Enclosure (°C)	Ambient
AC-A12V24H0.5	70.0 - <b>Class B</b>	58.8	40
AC-A50V24H2.1C	85.5 - <b>Class B</b>	65.7	40
AC-A60VD12H5.0 AC-60VD12A5.0LL	99.2 - <b>Class B</b>	79.5	40
AC-A100VD24H4.1 AC100VD24A4.1PG	98.4 - <b>Class B</b>	82.2	40
AC-60VD24AER	106.0 - <b>Class B</b>	90.0	65
AC-60VD24H2.5DK	80.0 - <b>Class B</b>	--	45
ACA100VD24H4.1C	106.0 - <b>Class B</b>	74.0	45

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**Model is representative of Models** AC60VD48A1.25NA, AC-60VD36B1.7LW, **AC-60VD24B2.5LV**, and AC-60VD12B5.0LU

4. The products were tested while connected to a 20A branch circuit. Additional testing shall be considered in the end-use product if used on a branch circuit greater than 20A.
5. The products are provided with input and output pigtail leads. The suitability of the leads shall be determined in the end-use application.
6. The input/output terminal blocks used on Model AC-A25V24H1.04C and AC-60VD24H2.5DK shall not exceed 95°C during temperature testing.
7. Tests were conducted using resistive and or electronic loads.
- \*8. Separation of dimming and output wiring shall be considered during the end product evaluation **for Model** AC-60VD24H2.5DK.

9. Models AC60VD48A1.25NA comply with LVLE requirements per CSA C22.2 No. 250.13-12, Annex A and CSA Informs Ref. No. I13-020 and therefore may be marked Class 2 for Canada provided they include an identifier such as "LED Driver", "LED Power Supply", "LED Control gear" or similar. These outputs shall not be accessible and shall be determined in the end-use application.