

## DESCRIPTION

## PRODUCT COVERED:

USR - Component "Thermally Protected" type Drivers with Isolated, Class 2 output Models:

SOLOdrive360/B	ECODrive360/B
SOLOdrive361/B	ECODrive361/B
SOLOdrive360/S	ECODrive360/S
SOLOdrive361/S	ECODrive361/S

CNR - Component Drivers with "LED Driver Class 2""LVLE" output, Models:

SOLOdrive360/B	ECODrive360/B
SOLOdrive361/B	ECODrive361/B
SOLOdrive360/S	ECODrive360/S
SOLOdrive361/S	ECODrive361/S

## ELECTRICAL RATINGS:

Model	Input / 50/60 Hz			Maximum Output Ratings, DC		
	V AC	A	W	V	A	W
SOLOdrive360/B	120-277	0.35	--	2.5-57	0.15-1.40	30
SOLOdrive361/B	120-277	0.35	--	2.5-57	0.15-1.40	30
SOLOdrive360/S	120-277	0.35	--	2.5-57	0.15-1.40	30
SOLOdrive361/S	120-277	0.35	--	2.5-57	0.15-1.40	30
ECODrive360/B	120-277	0.35	--	2.5-57	0.15-1.40	30
ECODrive361/B	120-277	0.35	--	2.5-57	0.15-1.40	30
ECODrive360/S	120-277	0.35	--	2.5-57	0.15-1.40	30
ECODrive361/S	120-277	0.35	--	2.5-57	0.15-1.40	30

## MODEL DIFFERENCES:

- A. All LED Driver models employ the identical construction, the critical components, construction materials, and the same sheet metal housing dimensions except for the dimming circuit, the access to the input and output terminal blocks, and the mounting means as follows:
- SOLOdrive36x/B, ECOdrive36x/B = bottom feed
  - SOLOdrive36x/S, ECOdrive36x/S = side feed
- B. All LED driver models employ the identical construction except for the design of the dimming circuit as follows:
- "DALI" - SOLOdrive360/B and ECOdrive360/S
  - "0-10" - SOLOdrive361/B and ECOdrive361/S
- C. The SOLOdrive models and the ECOdrive models employ identical construction except for the increment levels of dimming set by the firmware as follows:

Models	Increment %	MA DC
SOLOdrive	0.1	1.0
ECOdrive	1.0	25

## SERIES NOMENCLATURE: SOLOdrive XYZ/B

SOLOdrive	3	6	0	B
I	II	III	IV	V

CODE		
I		Series Designation: SOLOdrive or ECOdrive
II	3	The first digit indicates the maximum total output power (Watts) as follows: <ul style="list-style-type: none"> <li>• "3"- 30 Watts</li> </ul>
III	6	The second digit indicates the maximum output voltage (V) as follows: <ul style="list-style-type: none"> <li>• "6" - 60 V</li> </ul>
IV	0	The third Digit indicates the type of option/options provided as follows: <ul style="list-style-type: none"> <li>• "0" = 0DALI Dimming</li> <li>• "1" = 0-10V Dimming ( isolated)</li> </ul>
V	B	"/" followed by a letter that indicates the connector location in the housing of the driver as follows:: <ul style="list-style-type: none"> <li>• "/B" - Bottom Feed</li> <li>• "/S" - Side Feed</li> </ul>

## MODEL OUTPUT CLASSIFICATION:

Model No.	Isolated output type			
	Dry and Damp Location			
	US Class 2	Canada Class 2	Canada Non-Class 2	LVLE ( * )
SOLOdrive360/B	X	-	X	X
SOLOdrive361/B	X	-	X	X
SOLOdrive360/S	X	-	X	X
SOLOdrive361/S	X	-	X	X
ECODrive360/B	X	-	X	X
ECODrive361/B	X	-	X	X
ECODrive360/S	X	-	X	X
ECODrive361/S	X	-	X	X

## NOTES:

"-": Not applicable

"X": Applicable

(\*) - Evaluation for CNR was in accordance CSA C22.2 NO. 250.13-12(\*) CAN/CSA LIGHT EMITTING DIODE (LED) EQUIPMENT FOR LIGHTING APPLICATIONS - Edition 1. And, the CSA Informs, Lighting Products No. 66 (Ref No: I13-020) was also applied for the output to be marked "LED Driver Class 2" "LVLE"

## Conditions of Acceptability -

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

1. The drivers shall be used within the recognized electrical ratings. And, the drivers were found suitable with a maximum output current rating of a 1400 mA DC as specified under the Electrical Ratings. However, the output current may be set at the factory during production to any current setting between 150 - 1400 mA DC
2. The drivers are "TL" type with the following "Tref" rating at the "TC" location specified on the marking labels of the drivers. When the drivers are installed in the end product, the following "Tref Max" should not be exceeded:

TYPE "TL" LED DRIVER	
Tref max	81
Tref	54

3. The suitability of the marked "Ta: 50 °C" were not evaluated.
4. The maximum available output parameters of these drivers were within the maximum allowable limits for Class 2, Inherently Limited specified in the UL1310 standard

Since the maximum output voltage exceed the 42.4 VDC/peak limit specified in the Canadian Standard for Power Supplies with Extra-Low-Voltage Class 2 Outputs, CSA C22.2 No. 223-M91. However, based on maximum voltage restrictions for Class 2 circuits in the Canadian Electrical Code, Class 2 wiring may be used for the connection of the outputs and the circuits associated with outputs of these drivers and for the CNR coverage, the output is considered Isolated, LED Driver Class 2 "LVLE". Therefore, the outputs and circuits associated with the output should not be "User Accessible" in the end-use application.

5. The drivers are intended for to a branch circuit with a maximum 20-Ampere branch protection.
6. The drivers are suitable for use in a "DRY" and "DAMP" locations
7. The drivers employ R/C (XCFR2/XCFR8), terminal blocks for the connection of the input, dimming and output. The minimum electrical rating of the terminal blocks are 300 V, 5 A. The terminal blocks are suitable for Field and factory wiring. The suitability for the application and use shall be determined in the end-use application.

## Conditions of Acceptability - Cont.:

8. Driver model SOLOdrive360/B, ECOdrive360/B, SOLOdrive0360/S and ECOdrive360/S is dimmable and are provided with an isolated "DALI" dimming interface circuit. The "DALI" circuit is isolated from the primary and secondary circuit (Terminals DA+, DA-).
9. Driver model SOLOdrive361/B, ECOdrive361/B, SOLOdrive361/S and ECOdrive361/S is dimmable and are provided with an isolated "0-10" dimming interface circuit (Terminals designated "0-10+" and "0-10-"). And, the maximum available parameters from the dimming circuit terminals meet the limits for a Class 2, inherently limited source
10. The identification of the input/output/dimming terminals is as follows:

Terminal Blocks	Connection
L	Supply line
N	Supply Neutral
PG	Grounding (*)
LED1+,LED1-	Channel 1: Output Positive, Negative
LED code+ / LED code-	Factory current setting terminals (**)
0-10V+ / 0-10V-	"0-10" Dimming connections
DA-, DA+,	"DALI" Dimming connections
<p>(*) - The suitability and the reliability of this connection to serve as main Grounding Means of the LED driver case have not been evaluated. Therefore, the driver case must be connected to earth ground in the end-use application</p> <p>(**) - The output current may be set at the factory during production to any current setting between 150-1400 mA DC</p>	