

Introduction

This application note provides descriptions of the ratings and details of the product label for the Strato and Tropo drivers. The major portions of the label will be broken down and described. If there are any unanswered questions regarding the ratings or information on the label which this application note does not answer, please contact Roal Electronics for assistance.

Review of the product label

The product label for the Strato and Tropo drivers contain important information about the rating and functionality of the driver. Figure 1 shows a typical Strato product label separated into 6 areas of interest. These sections of the label are very similar to Tropo. The areas are described in the following sections of this application note.

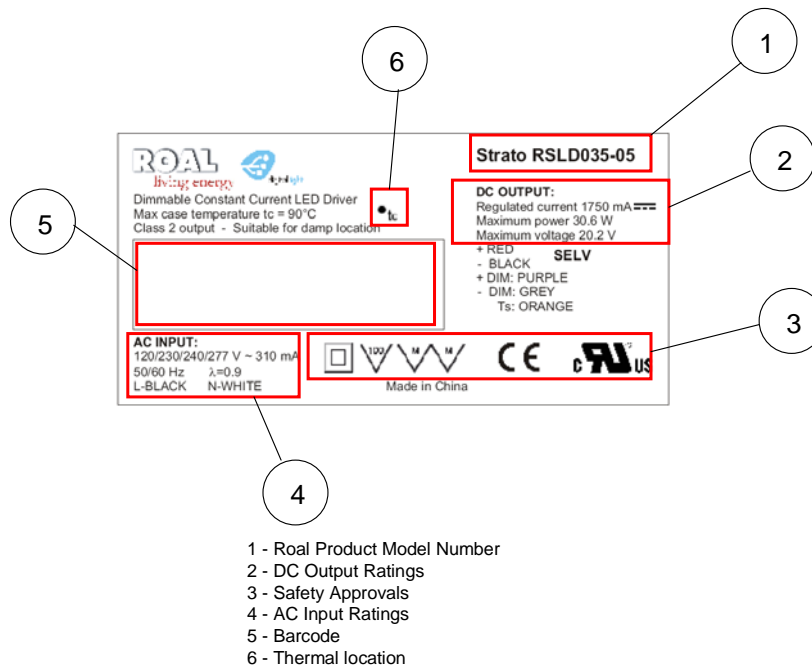


Figure 1



Roal Product Model Number

The Roal Model number is shown in this location. The model number can be broken down into a 2 sections.

The prefix indicates the driver model series:

Prefix	Driver Series
RLDD015(L or H)	Tropo in plastic enclosure. L = 120VAC, H = 230VAC Input
RCDD015(L or H)	Tropo in metal enclosure. L = 120VAC, H = 230VAC Input
RSLD035	Strato 35W in plastic enclosure
RCLD035	Strato 35W in metal enclosure
RHPS311	Custom Tropo model
RHPS314	Custom Strato 35W model

The suffix provides information about the output rating of the driver:

Suffix	Description
-350	When the suffix is 3 numbers it indicates the output current in mA. This applies to Tropo drivers only.
-16	When the suffix is 2 characters (can be mixed letter and number), it indicates the number of LEDs in a string the driver is designed for. This applies to Strato drivers only.
-XX1	When the suffix is 3 characters (2 letters followed by 1 number), it indicates a custom model. This is only used with the prefix of RHPS311 (Tropo) and RHPS314 (Strato).

In the example on page 1, the Roal model number is RSLD035-05. This indicates the product is a Strato 35W, in a plastic package and designed for a string of 5 LEDs.

Eu and RoW

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AN2_SSL Label_Rev03NL - Page

DC Output Ratings

The DC Output Ratings section of the product label includes 3 lines as described below:

1. **Regulated Output Current:** This is the regulated DC output current of the driver. The current is regulated to this value over all conditions of input voltage and when the output voltage is within the operating range for the particular model driver. Refer to the driver datasheet for the output voltage operating range.
2. **Maximum Power:** This is the maximum rated output power for the driver. This is calculated from the maximum operating voltage and the regulated output current. It is not calculated from the maximum voltage printed on the label.
3. **Maximum Voltage:** This is the maximum output voltage of the driver under a no load condition. This is not the maximum operating voltage. Please refer to the driver datasheet for the output voltage operating range.

Safety Approvals

This section of the label includes the logos for the particular safety approvals.

AC Input Ratings

This section of the label includes the AC Input Ratings. This includes the input voltage rating along with the input current rating. Also shown is the frequency and power factor rating (for European markets).

Barcode Information

The barcode information area provides the unique serial number for the product. Contained in this barcode is information about the model number, manufacturing date code and revision as well as additional information not pertinent to the user.

Thermal Location

This indicates the location to be used for all measurements of the case temperature of the driver.

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AN2_SSL Label_Rev03NL - Page