

# Features

## LED DRIVER

- 25W Class II AC-DC LED Power Supply
- 350, 500, 700, 1050mA or 2100mA Output
- Active Power Factor Correction >0.90
- Efficiency up to 81%
- IP67 Certified
- 3 in 1 Dimming

### Description

The 25W LED drivers of the RACD25-A series come with a 3-in-1 dimming function so that the LED load can be dimmed with analog (1-10V), PWM, or resistor inputs. Due to wide input voltage range of 90 - 305VAC these LED drivers are suitable for worldwide use. They operate with efficiencies of up to 81%, feature active PFC, and are fully protected against short circuit, overvoltage, and over-temperature conditions. They are sealed against damp and wet conditions, and the warranty is 5 years.

### Selection Guide

| Part Number  | Rated Power (W) | Output Current (mA) | Output Voltage (VDC) | Efficiency (typ.) (%) |
|--------------|-----------------|---------------------|----------------------|-----------------------|
| RACD25-350A  | 20              | 350                 | 48 - 57              | 79                    |
| RACD25-500A  | 24              | 500                 | 36 - 48              | 81                    |
| RACD25-700A  | 25.2            | 700                 | 24 - 36              | 82                    |
| RACD25-1050A | 25.2            | 1050                | 12 - 24              | 80                    |
| RACD25-2100A | 25.2            | 2100                | 9 - 12               | 79                    |

### Specifications (measured at 240VAC and 25°C ambient temperature)

|  |  |                                     |
|--|--|-------------------------------------|
| Input Voltage Range  | 90-305 VAC   |                                     |
| Input Frequency Range  | 47-63Hz  |                                     |
| Power Factor   | Full Load, 277VAC                                    | >0.90                               |
|  | Full Load, 230VAC                                    | >0.92                               |
|  | Full Load, 110VAC                                    | >0.98                               |
| AC Input Current   | 110VAC   | 0.4A                                |
|  | 230VAC   | 0.2A                                |
| Inrush Current (Max.)  | 264VAC   | Cold Start 50A                      |
| Leakage Current  | 230VAC   | <0.25mA                             |
| Output Current Accuracy (includes Line Regulation, Load Regulation and set-up tolerance) | ±5%  |                                     |
| Isolation Voltage  | 3.75kVAC / 1minute                                   |                                     |
| Short Circuit Protection   | Hiccup mode & recovers after fault condition removed |                                     |
| Over Voltage Protection  | 115% - 135% Output Voltage                           | auto-recovery                       |
| Over Temperature Protection  | Thermistor   | 105°C ± 10°C                        |
|  | Type   | Latch Mode                          |
| <b>Dimming Control:</b>  | PWM  | 1<Adj<10V(500Hz - 3kHz)             |
|  | Analogue   | control by external voltage 1-10VDC |
|  | Resistance   | 10K - 100KΩ                         |
| Set Up Time  | Full Load, 120VAC                                    | 2 sec                               |
| Vibration  | 10-500Hz, 2G, 60 Min. along X, Y and Z               |                                     |
| Storage Humidity   | 10% - 95% RH   |                                     |
| Operating Humidity   | 20% - 95% RH Non-Condensing                          |                                     |
| Weight   | 384g   |                                     |
| Dimension (LxBxH)  | 110 x 73.5 x 33mm                                    |                                     |
| Operating Temperature Range  | Full load  | -20°C to +50°C                      |
| (free air convection 10LFM)  | Case Temperature                                     | 85°C ± 10°C                         |
| Storage Temperature  | -40°C to +80°C                                       |                                     |
| IP Rating  | IP67   |                                     |
| Isolation Resistance   | 500VDC   | 100MΩ                               |
| MTBF (+25°C)   | using MIL-HDBK 217F                                  | 200 x 10 <sup>3</sup> hours         |

continued on next page

**LIGHTLINE**  
AC/DC-Converter  
with 5 year Warranty

**RECOM**

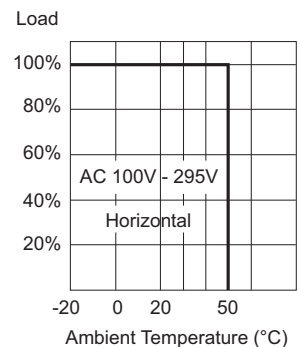
**25 Watt PFC  
Single  
Output**



**UL8750 Certified  
EN61347 Certified  
EN55015 Certified  
EN61547 Certified**

**RACD25-A**

## Derating-Graph (Ambient Temperature)



**Note:**

All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

**Refer to Application Notes**

## Specifications (measured at 240VAC and 25°C ambient temperature)

### Certifications:

UL Standards

Report: E340696

UL8750

(based on) UL1310

Safety Standards

Report: P201403013

EN61347-1; EN61347-2-13

Emission

Report: HA130831-SACE

EN55015, Class B

IEC61000-3-2

IEC61000-3-3

FCC

Report: HA130831-SAFD

Part 15, Class B

EMC

Report: HA130831-SACE

IEC61000-4-2, 3, 4, 5, 6, 8, 11

Immunity

EN61547

IP67

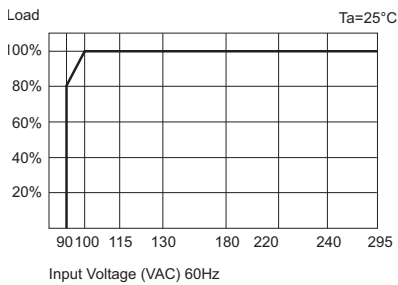
Report: 14022002

IEC/EN 60598-1

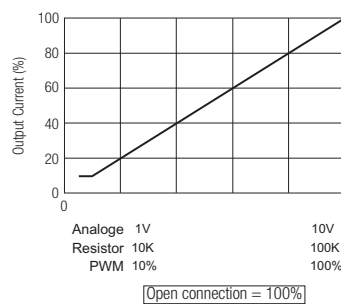
IEC/EN 60529

## Technical Characteristic

### Load vs. Input Voltage



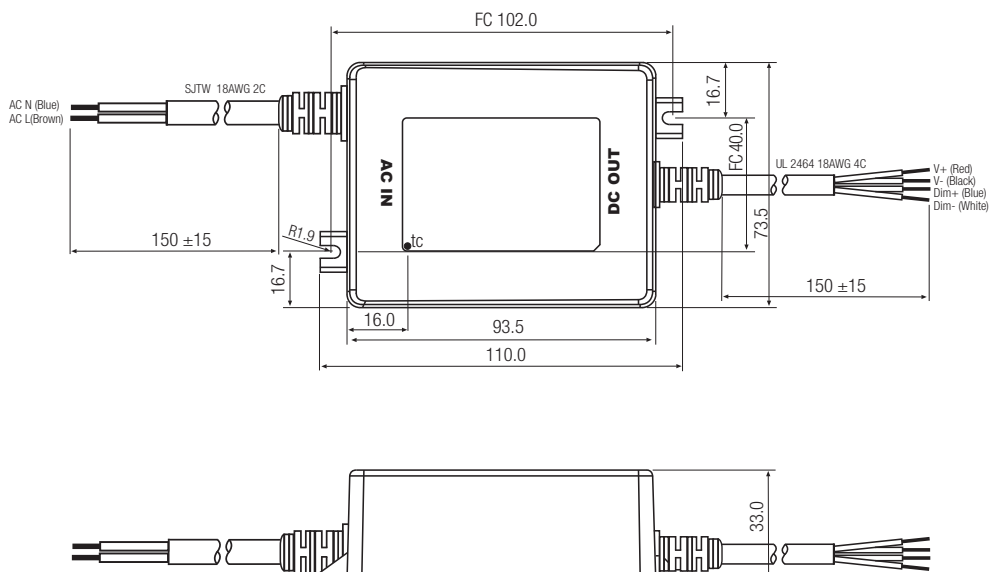
### Dimming Curve



### Maximum Number of LED drivers per circuit breakers

| Condition                       | Circuit Breaker | Circuit Breaker Current |     |     |     |
|---------------------------------|-----------------|-------------------------|-----|-----|-----|
|                                 |                 | 10A                     | 16A | 20A | 25A |
| 115VAC, 10hm<br>90° phase angle | Typ             |                         |     |     |     |
|                                 | C               | 32                      | 48  | 57  | 72  |
| 230VAC, 10hm<br>90° phase angle | B               | 24                      | 38  | 46  | 58  |
|                                 | C               | 38                      | 62  | 74  | 92  |
| 277VAC, 10hm<br>90° phase angle | B               | 28                      | 44  | 53  | 66  |
|                                 | C               | 44                      | 71  | 84  | 106 |

## Package Style & Pinning



The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [LED Power Supplies](#) category:*

*Click to view products by [RECOM POWER](#) manufacturer:*

Other Similar products are found below :

[ESS015W-1000-12](#) [EUC-075S105DT](#) [PDA-WIFI](#) [PIFC-K250F](#) [PITB-K222A](#) [ALD-514012PJ134](#) [LB240S24KH](#) [LMH020-SPLC-0000-0000001](#) [LMD600-0100-C1A7-7030000](#) [79534](#) [79535](#) [EUG-200S210DT](#) [ESS030W-1050-21](#) [ESS030W-0900-32](#) [BPOXL 4-12-035](#) [SLM160W-3.9-40-ZA](#) [ESS010W-0180-42](#) [ESS010W-0350-24](#) [ESS010W-0200-42](#) [PDA080B-1A0G](#) [ESS010W-0500-12](#) [PDA150B-S1A5G](#) [ZPS-20](#) [SLM140W-1.05-130-ZA](#) [ESS040W-1400-27](#) [ESS015W-0700-18](#) [ESS010E-0250-42](#) [EVM120W-2700-42-ECN2](#) [EDC-100S105SV-0007](#) [79278](#) [EUD-150S350DVA](#) [LWA320-C420-ARK-B](#) [50304](#) [OT FIT 50/220-240/300 D L](#) [OT FIT 35/220-240/350 D CS L](#) [OT FIT 65/220-240/350 D CS L](#) [ELEMENT 30/220-240/700 S](#) [LC 75W 100-400MA 1-10V LP EXC](#) [LCA 35W 150-700MA ONE4ALL LP PRE](#) [LCA 50W 100-400MA ONE4ALL LP PRE](#) [LCA 50W 350-1050MA ONE4ALL LP PRE](#) [LCA 50W 350-1050MA 2XCH LP PRE](#) [LCI 150/325-1050/300 O4A SL PRE](#) [LCA 75W 100-400MA ONE4ALL LP PRE](#) [LCA 45W 500-1400MA ONE4ALL SC PRE](#) [LC 50W 100-400MA FLEXC LP EXC](#) [LCA 75W 350-1050MA ONE4ALL LP PRE](#) [LC 50W 350-1050MA FLEXC LP EXC](#) [LC 75W 350-1050MA FLEXC LP EXC](#) [LCA 75W 900-1800MA ONE4ALL LP PRE](#)