

## Features

### LED DRIVER

- 25W Class II AC-DC LED Power Supply
- 500mA, 700mA, 1050mA or 1400mA Output
- Active Power Factor Correction >0.90
- Efficiency to 85%
- EN and UL

#### Selection Guide

| Part Number  | Rated Power (W) | Output Current (mA) | Output Voltage (VDC) | Efficiency (typ.) |
|--------------|-----------------|---------------------|----------------------|-------------------|
| RACD25-500P  | 25              | 500                 | 42 - 52              | 82%               |
| RACD25-700P  | 25              | 700                 | 21 - 36              | 85%               |
| RACD25-1050P | 25              | 1050                | 16 - 24              | 84%               |
| RACD25-1400P | 25              | 1400                | 12-18                | 83%               |

#### Specifications (measured at 230VAC and 25°C ambient temperature)

|                             |                                        |                             |
|-----------------------------|----------------------------------------|-----------------------------|
| Input Voltage Range         | 90-295 VAC or 127-417 VDC              |                             |
| Input Frequency Range       | 47-63Hz                                |                             |
| Power Factor                | Full Load, 230VAC                      | >0.90                       |
|                             | Full Load, 115VAC                      | >0.98                       |
| THD                         | Full Load, 115VAC/230VAC               | 12% max.                    |
|                             | Full Load, 277VAC                      | 14% max.                    |
| Current Accuracy            | 700mA Version                          | ±7%                         |
|                             | others                                 | ±8%                         |
| AC Input Current            | 115VAC                                 | 0.4A                        |
|                             | 230VAC                                 | 0.2A                        |
| Inrush Current (<2ms)       | 264VAC                                 | Cold Start 20A              |
| Isolation Voltage           | 3.75kVAC / 1 minute                    |                             |
| Short Circuit Protection    | Continuous                             |                             |
| Over Voltage Protection     | 110% - 150%                            |                             |
| Over Temperature Protection | Rth                                    | Internal Thermistor         |
|                             | Type                                   | Auto-Recovery Mode          |
| Vibration                   | 10-500Hz, 2G, 60 Min. along X, Y and Z |                             |
| Storage Humidity            | 10% - 95% RH                           |                             |
| Operating Humidity          | 20% - 95% RH Non-Condensing            |                             |
| Weight                      | 220g                                   |                             |
| Dimension                   | 174.5 x 30.5 x 25mm                    |                             |
| Operating Temperature       | -20°C to +50°C                         |                             |
| Storage Temperature         | -40°C to +80°C                         |                             |
| Ripple & Noise              | 3V max.                                |                             |
| IP Rating                   | IP67                                   |                             |
| Isolation Resistance        | 100MΩ / 500VDC at 25°C                 |                             |
| Safety Standards            | EN61347-1                              |                             |
|                             | EN61347-2-13                           |                             |
|                             | UL8750                                 |                             |
|                             | EN61000-3-2 Class C                    |                             |
|                             | EN61000-4-2,3,4,5,6,11                 |                             |
|                             | EN61547                                |                             |
|                             | EN55015 FCC15                          |                             |
| MTBF (+25°C)                | using MIL-HDBK 217F                    | 200 x 10 <sup>3</sup> hours |
| Desing Lifetime             |                                        | 70 x 10 <sup>3</sup> hours  |

The use of a circuit breaker with C-characteristic is recommended.

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

**RECOM**

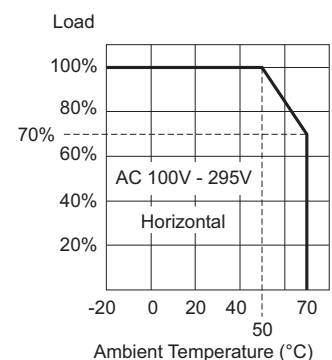
**25 Watt PFC  
Single  
Output**



**UL 8750 Certified  
EN 61347 Certified**

**RACD25-P**

## 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**

### Input Voltage vs. Output Load



| Condition                       | Circuit Breaker | Circuit Breaker Current |     |     |     |
|---------------------------------|-----------------|-------------------------|-----|-----|-----|
|                                 | Typ             | 10A                     | 16A | 20A | 25A |
| 115VAC, 10hm<br>90° phase angle | 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 |

The technical drawing illustrates the ACN-01 connector from two perspectives: a top view and a side view.

**Top View Dimensions:**

- Total length: 190.0
- Distance from left end to mounting tab center: 150
- Distance from right end to mounting tab center: 150
- Wire gauge specification: UL1015 20AWG
- AC L (Brown) wire on the left; V- (Black) wire on the right.
- Internal rectangular feature width: 78.0
- Feature label: tc
- Mounting tab radius: 2-R1.8
- Tab thickness: 3.0
- Center offset from left edge: 10
- Right-side vertical dimension: 30.5
- AC N (Blue) wire on the left; V+ (Red) wire on the right.

**Side View Dimensions:**

- Total length: 174.5
- Height: 25.0

**L-37**

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