

## Features

### LED DRIVER

- Universal AC Input
- Constant Current Operation
- Suitable for High Brightness LED Products
- Built-In Active PFC Function
- Overvoltage-, Short Circuit- and Over-temperature Protection
- Built-In 3 in 1 Dimming
- IP67 Rated

#### Selection Guide

| Part Number  | Output Voltage (VDC) | Rated Power (W) | Rated Current (mA) | Constant Current Range (V) | Efficiency (typ.) |
|--------------|----------------------|-----------------|--------------------|----------------------------|-------------------|
| RACD60-4200A | 12                   | 50              | 420 - 4200         | 9 - 12                     | 86%               |
| RACD60-2500A | 24                   | 60              | 250 - 2500         | 15 - 24                    | 86%               |
| RACD60-1650A | 36                   | 60              | 165 - 1650         | 24 - 36                    | 87%               |
| RACD60-1200A | 48                   | 58              | 120 - 1200         | 33 - 48                    | 88%               |
| RACD60-1050A | 57                   | 60              | 105 - 1050         | 40 - 57                    | 88%               |

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

|                                                   |                                                       |                                      |
|---------------------------------------------------|-------------------------------------------------------|--------------------------------------|
| Input Voltage Range                               | 90-305 VAC                                            |                                      |
| Input Frequency Range                             | 47-63Hz                                               |                                      |
| Power Factor (Full Load)                          | 120VAC                                                | >0.98                                |
|                                                   | 240VAC                                                | >0.94                                |
|                                                   | 277VAC                                                | >0.92                                |
| DC Dimming                                        | DC 1-10V                                              |                                      |
| PWM Dimming                                       | Puls: Hi=10V Low=0V, Duty: 10% - 100%, Fsw 0.5 - 3KHz |                                      |
| Resistance Dimming                                | 10K - 100K $\Omega$                                   |                                      |
| AC Input Current                                  | 100-240VAC                                            | 0.8A                                 |
|                                                   | 277VAC                                                | 0.4A                                 |
| Inrush Current (Cold Start)                       | 240VAC                                                | 70A                                  |
| Leakage Current                                   | <0.5mA / 240VAC                                       |                                      |
| Set Up Time (at Full Load)                        | <2000ms                                               |                                      |
| Isolation Voltage                                 | 3.75kVAC                                              |                                      |
| Short Circuit Protection                          | Hiccup                                                |                                      |
| Over Voltage Protection                           | 12V                                                   | 13.2 - 15.6V                         |
|                                                   | 24V                                                   | 26.4 - 31.2V                         |
|                                                   | 36V                                                   | 39.6 - 46.8V                         |
|                                                   | 48V                                                   | 52.8 - 62.4V                         |
|                                                   | 57V                                                   | 62.7 - 70V                           |
| Over Temperature Protection                       | 105 $\pm$ 10°C                                        |                                      |
|                                                   | Type                                                  | Latch Mode                           |
| Vibration                                         | 10-500Hz                                              | 2G for 60min each along X, Y, Z axes |
| Storage Humidity                                  | 10% - 90% RH                                          |                                      |
| Operating Humidity                                | 20% - 90% RH Non-Condensing                           |                                      |
| Weight                                            | 400g                                                  |                                      |
| Operating Temperature                             | -30°C to +50°C                                        |                                      |
| Storage Temperature                               | -40°C to +60°C                                        |                                      |
| Ripple & Noise                                    | 12V, 24V                                              | 200mV                                |
| (at 20MHz bandwidth using 0.1uF & 47uF capacitor) | 36V, 48V, 57V                                         | 250mV                                |
| IP Rating                                         | IP67                                                  |                                      |
| Isolation Resistance                              | 100M $\Omega$ / 500VDC at 25°C                        |                                      |
| Dimension (L*W*H)                                 | 174*45*30mm                                           |                                      |

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

**RECOM**

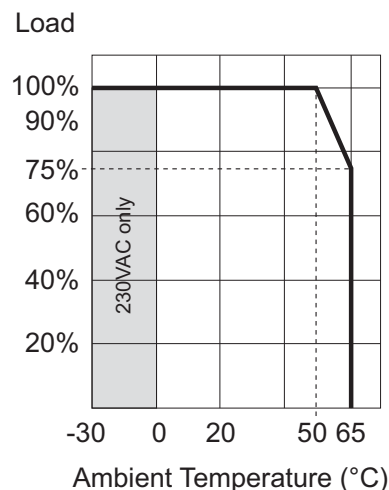
## 60 Watt PFC Single Output



**EN 61347-1 Certified**  
**EN 61347-2-13 Certified**  
**UL8750 Pending**

**RACD60-A**

## Derating-Graph (Ambient Temperature)



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

Safety Standards (designed to meet)

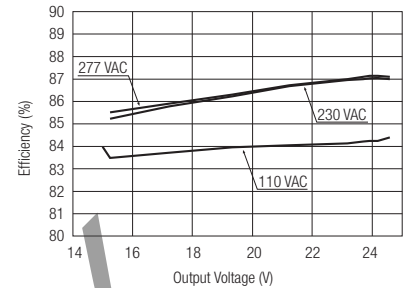
UL8750  
EN61347-1  
EN61347-2-13  
EN61000-3-2 Class C  
EN61000-3-3  
EN61000-4-2,3,4,5,6,8,11  
EN61547  
EN55015 FCC15

MTBF (+25°C)

using MIL-HDBK 217F

200 x 10<sup>3</sup> hours min.

Efficiency vs Load over Vin  
RACD60-2500A



## 3 in 1 Dimming Control (DC / PWM / Resistance)

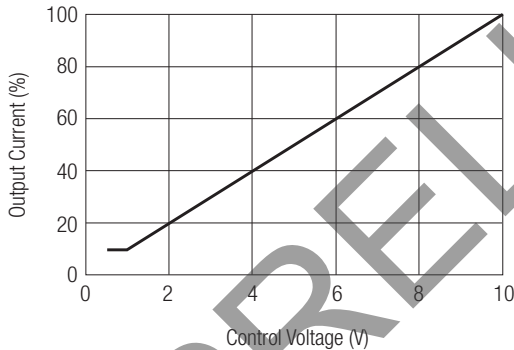
10K-100K Resistor Dimmable (Typical):

| Resistor | Single-Driver | 10K   | 20K   | 30K   | 40K   | 50K   | 60K   | 70K   | 80K   | 90K   | 100K   |
|----------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|          | Multi-Driver  | 10K/N | 20K/N | 30K/N | 40K/N | 50K/N | 60K/N | 70K/N | 80K/N | 90K/N | 100K/N |
| Iout (%) |               | 10%   | 20%   | 30%   | 40%   | 50%   | 60%   | 70%   | 80%   | 90%   | 100%   |

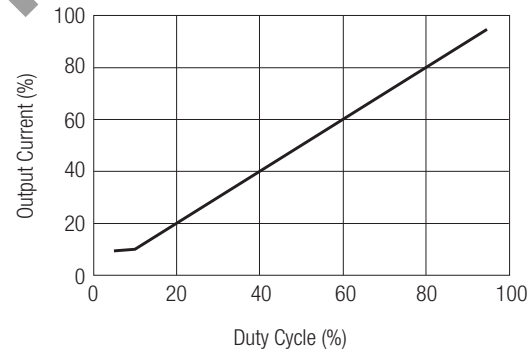
The length of extended wire for DIM+/- shall not exceed 20 meters. (wire ≤ 20ms)

N = The number of dimmer drivers should not exceed 15. (N ≤ 20mS)

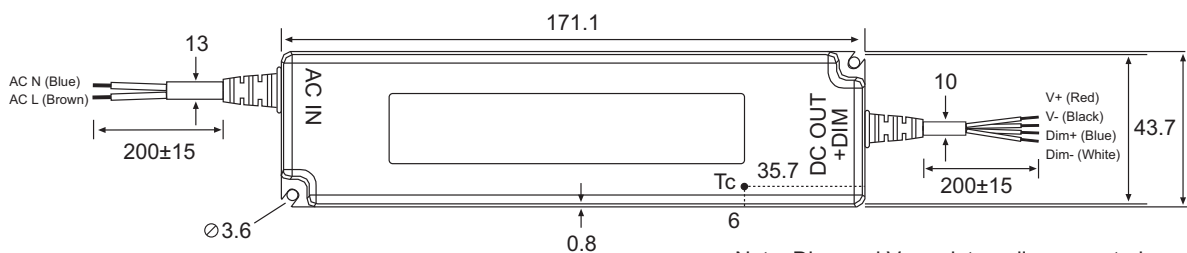
DC: 1-10V Dimmable (Typical)



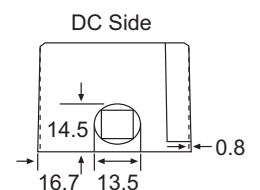
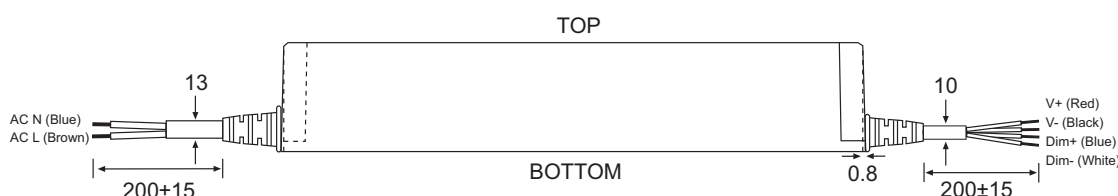
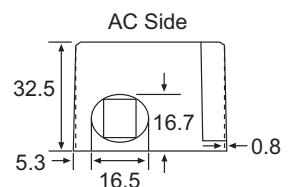
DC: 10V / PWM Dimmable (Typical)



## Package Style & Pinning



3rd angle projection



# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



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