

Features

LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- CE and UL Certified Class I LED Driver
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection

Selection Guide

| Part Number | CV Mode | | CC Mode | | Efficiency (230VAC) (%) |
|-------------|----------------------|-------------------|----------------------|----------------------|-------------------------|
| | Constant Voltage (V) | Current Range (A) | DC Voltage Range (V) | Constant Current (A) | |
| RACD100-12 | 12 | 0-8.3 | 9-12 | 8.3 | 88 |
| RACD100-24 | 24 | 0-4.2 | 14-24 | 4.2 | 90 |
| RACD100-36 | 36 | 0-2.8 | 26-36 | 2.8 | 90 |
| RACD100-48 | 48 | 0-2.1 | 34-48 | 2.1 | 91 |

Specifications

| | | |
|---|--|---------------------------------|
| Input Voltage Range | 90-305 VAC or 127-430VDC | |
| Input Frequency Range | 47-63Hz. | |
| Power Factor | Full Load, 115VAC | >0.98 |
| | Full Load, 230VAC | >0.95 |
| | Full Load, 277VAC | >0.94 |
| THD | Full Load, 115VAC | 8% max. |
| AC Current | 115VAC | 0.7A max. |
| | 230VAC | 1.4A max. |
| Input/Output Isolation | 3.75kVAC / 1minute | |
| Input/Case Isolation | 1.8kVAC / 1minute | |
| Output/Case Isolation | 0.5kVAC / 1minute | |
| Leakage Current | 240VAC | <0.75mA |
| Voltage Tolerance | -1% to 5% | |
| Start-up Time | 115VAC | 1.5s |
| (@ Full Load) | 230VAC / 277VAC | 0.7s |
| Ripple & Noise | 48V Version | 200mV max. |
| | others | 150mV max. |
| Over Current Protection | 95%-105% rated current | Auto-Recovery |
| Short Circuit Protection | Hiccup Mode | |
| Over Voltage Protection | 12V | 15V typ. |
| Latch Mode | 24V | 31V typ. |
| (Power off to recover) | 36V | 45V typ. |
| | 48V | 58V typ. |
| Over Temperature Protection | Tcase 95°C ±10°C | |
| Operating Temperature Range | Ambient Temperature | -20°C to +60°C |
| (free air convection, according to CE/UL) | Case Temperature | 90°C max. |
| Operation Humidity | 20%-90% RH Non-Condensing | |
| Storage Temperature | -40°C to +80°C | |
| Storage Humidity | 10%-90% RH | |
| Vibration | 10-500Hz, 2G, 60 Min. along X, Y and Z | |
| IP Rating | IP67 | |
| Safety Standards | UL/cUL LED Lighting Safety (E340696) | UL8750 |
| | CE LVD Directive, Safety | EN61347-2-13 |
| | CB Report: 12CA61289-1 | IEC61347-2-13 |
| EMC Standards | EMC Compatibility | EN55015 |
| | | FCC, Part 15 |
| | Harmonic Current | EN61000-3-2 Class C (≥75% load) |
| | | EN61000-3-3 |
| | EMC Immunity | EN61000-4-2, 3, 4, 5, 6, 11 |

continued on next page

LIGHTLINE
AC/DC-Converter
with 5 year Warranty

RECOM

**100 Watt
Single
Output**



**UL 8750 Certified
EN 61347 Certified**

RACD100

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

LIGHTLINE

AC/DC-Converter

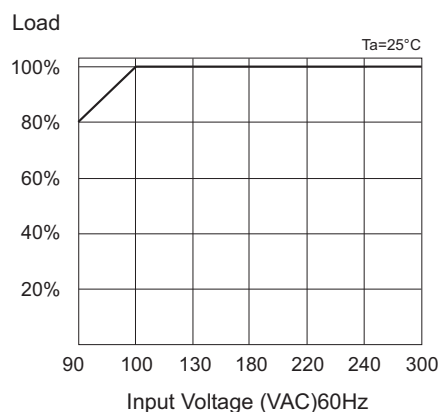
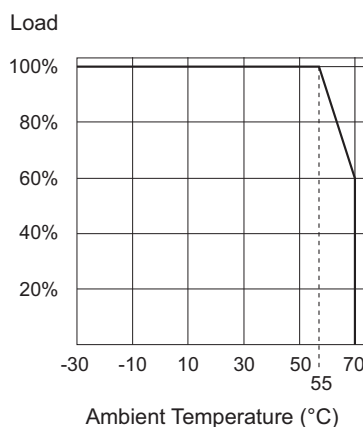
RACD100 Series

Specifications

| | |
|-----------------|---|
| Dimension | 222*68*39mm |
| Weight | 1020g |
| MTBF | using MIL-HDBK-217F (25°C) 250 x 10 ³ hours |
| Design Lifetime | 70 x 10 ³ hours |

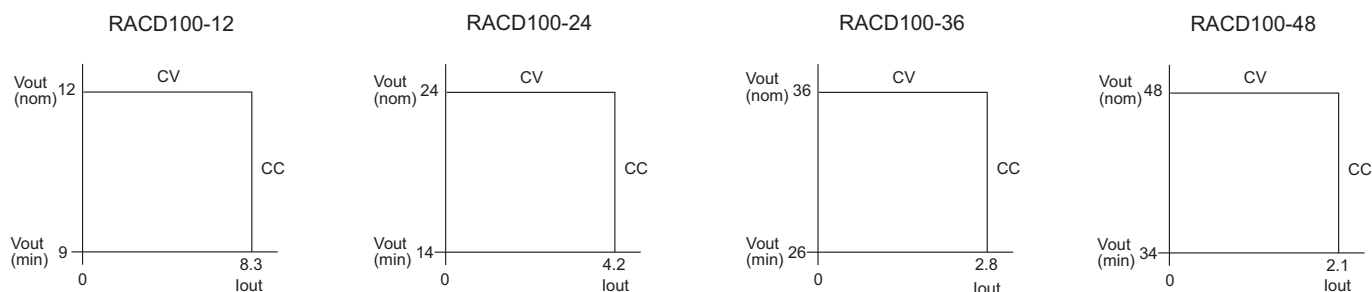
The use of a circuit breaker with C-characteristic is recommended.

Derating Curve

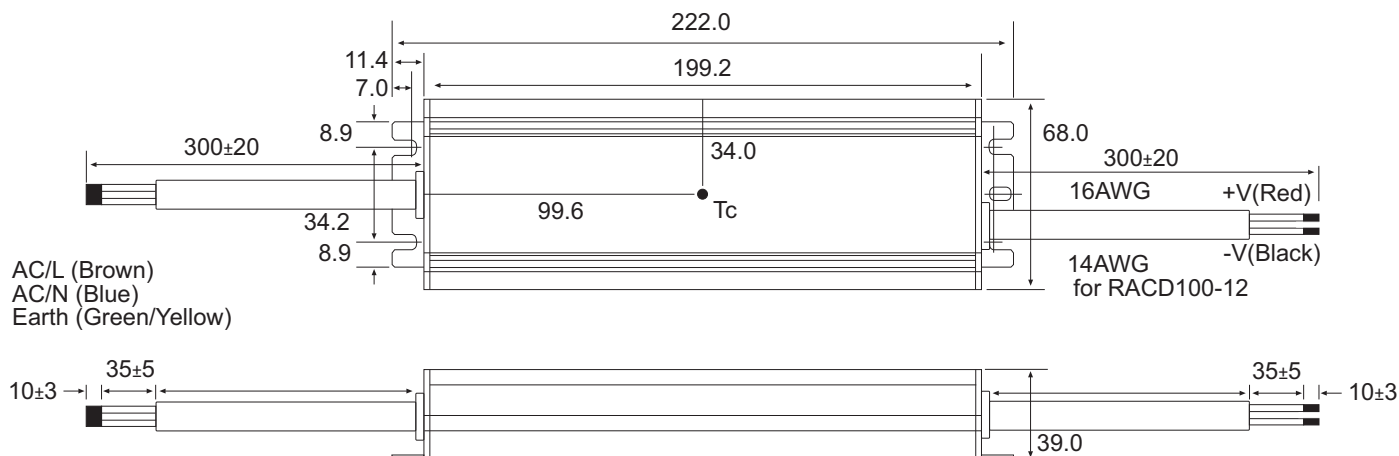


Characteristics

Constant Voltage / Constant Current Curve



Package Style and Pinning



The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications. The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.