## Features

LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection
- PSE Certified for Japan market


## Description

The RACD100-PSE LED driver series offers 100W of power with a universal input voltage range of 90-130VAC and constant current output up to 8.3 A at a voltage of approximately 12 V . The series features a unique dual mode operation for either constant current or constant voltage making it suitable for driving LEDs directly or via local con-stant-current $D C / D C$ modules directly on the light engine board. The RACD100-PSE series are fully sealed IP67 LED drivers and therefore ideally suited for indoor and outdoor applications including road, street and walkway lighting, high-bay, LED signage, and outdoor area lighting for car parks, public buildings, and tunnels. The LED drivers are PSE certified and come with a 5 year warranty.


Specifications

| Input Voltage Range |  | 90-130 VAC or 127-184VDC |
| :---: | :---: | :---: |
| Input Frequency Range |  | $47-63 \mathrm{~Hz}$. |
| Power Factor Fur | Full Load, 115VAC | $>0.98$ |
| THD F | Full Load, 115VAC | 8\% max. |
| AC Current 1 | 115 VAC | 1.4A max. |
| Input/Output Isolation |  | $3.75 \mathrm{kVAC} / 1$ minute |
| Input/Case Isolation |  | 1.8kVAC / 1minute |
| Output/Case Isolation |  | $0.5 \mathrm{kVAC} / 1$ minute |
| Leakage Current |  | $<0.75 \mathrm{~mA}$ |
| Voltage Tolerance |  | -1\% to 5\% |
| Start-up Time F | Full Load, 115VAC | 1.5s |
| Ripple \& Noise (at 20MHz bandwith) |  | 150 mVp -p max. |
| Over Current Protection 9 | 95\%-105\% rated current | Auto-Recovery |
| Short Circuit Protection |  | Hiccup Mode |
| Over Voltage Protection 1 | 12 V | 15 V typ. |
| Latch Mode 2 | 24 V | 31 V typ. |
| (Power off to recover) 3 | 36 V | 45 V typ. |
|  | 48 V | 58 V typ. |
| Over Temperature Protection |  | Tcase $95^{\circ} \mathrm{C} \pm 10^{\circ} \mathrm{C}$ |
| Operating Temperature Range | without derating | $-20^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ ( see graph) |
| (free air convection, according to PSE) | Case Temperature | $75^{\circ} \mathrm{C}$ max. |
| Operation Humidity |  | 20\%-90\% RH Non-Condensing |
| Storage Temperature |  | $-40^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |
| Storage Humidity |  | 10\%-90\% RH |
| Vibration |  | 10-500Hz, 2G, 60 Min. along X, Y and Z |
| IP Rating |  | IP67 |
| EMC Standards (designed to meet) | EMC Compatibility | EN55015 |
|  |  | FCC, Part 15 |
|  | Harmonic Current | EN61000-3-2 Class C ( $\geq 75 \%$ 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


## RACD100-PSE

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.


## Constant Voltage / Constant Current Curve

RACD100-12


RACD100-24


RACD100-36


RACD100-48


Maximum Number of LED drivers per circuit breakers

| Condition | Circuit Breaker | Circuit Breaker Current |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Typ | 10 A | 16 A | 20 A | 25 A |  |
| $115 \mathrm{VAC}, 10 \mathrm{hm}$ <br> $90^{\circ}$ phase angle | C | 7 | 12 | 14 | 18 |  |

## Package Style and Pinning

Top View


## X-ON Electronics

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