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
Dimming Control:	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 10^3 hours

continued on next page

LIGHTLINE
AC/DC-Converter
with 5 year Warranty

RECOM

25 Watt PFC Single Output



RoHS 2011/65/EU 6/6

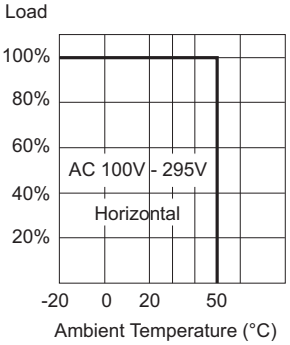
E340696

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

RACD25-A Series

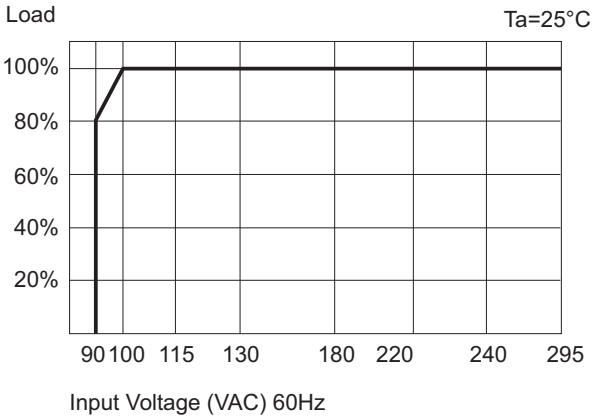
Specifications (measured at 240VAC and 25°C ambient temperature)

Certifications:

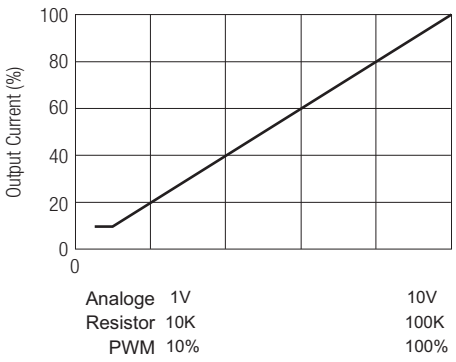
UL Standards	Report: E340696	UL8750
		(based on) UL1310
Safety Standards	Report: P201403013	EN61347-1; EN61347-2-13
Emission	Report: HA130831-SACE	EN55015, Class B
		IEC61000-3-2
		IEC61000-3-3
FCC	Report: HA130831-SAFD	Part 15, Class B
EMC	Report: HA130831-SACE	IEC61000-4-2, 3, 4, 5, 6, 8, 11
Immunity		EN61547
IP67	Report: 14022002	IEC/EN 60598-1
		IEC/EN 60529

Technical Characteristic

Load vs. Input Voltage

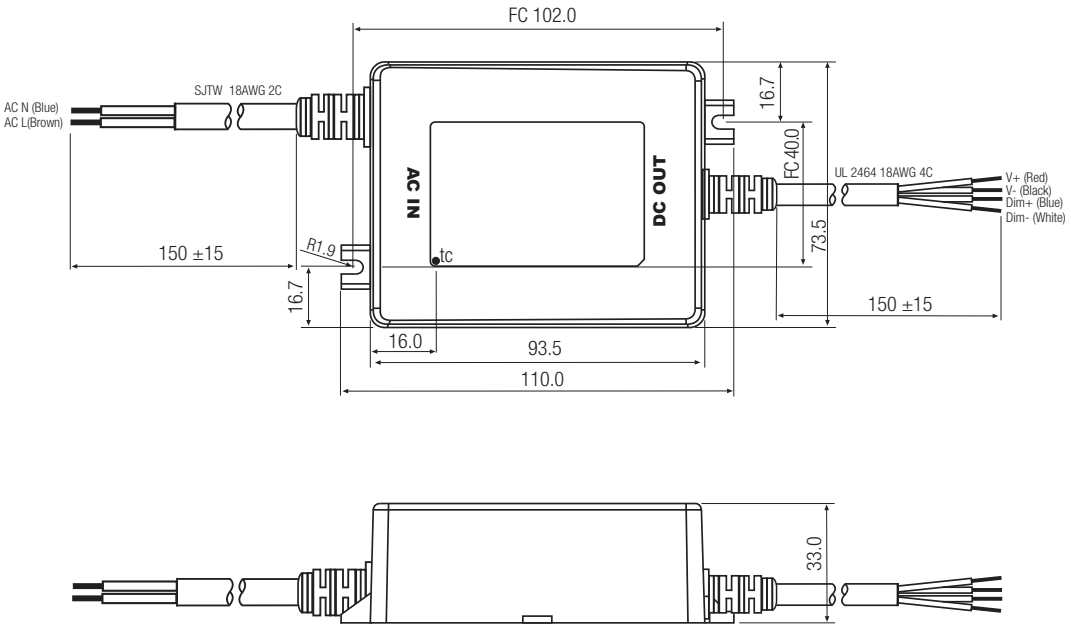


Dimming Curve



Open connection = 100%

Package Style & 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.