Features

LED DRIVER

- 35W Class II AC-DC LED Power Supply
- 500, 700, 1000, 1400mA or 2500mA Output
- Active Power Factor Correction > 0.90
- Efficiency up to 83%
- IP67 Certified
- 3 in 1 Dimming

Description

The 35W LED drivers of the RACD35-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 83%, 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.

lection (

Part Number	Rated Power (W)	Output Current (mA)	Output Voltage (VDC)	Efficiency (typ.) (%)
RACD35-500A	28.5	500	48 - 57	82
RACD35-700A	33,6	700	33 - 48	79
RACD35-1000A	36	1000	24 - 36	82
RACD35-1400A	33.6	1400	12 - 24	81
RACD35-2500A	30	2500	9 - 12	80

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	>0.95			
	Full Load, 110VAC	>0.98			
AC Input Current	110VAC	0.5			
	230VAC	0.34			
Inrush Current (Max.)	264VAC	Cold Start 60A			
Leakage Current	230VAC	<0.25m			
Output Current Accuracy (includes Line F	Regulation, Load Regulation and set-up toler	rance) $\pm 5\%$			
Isolation Voltage		3.75kVAC / 1minute			
Short Circuit Protection	Hiccup mode & r	Hiccup mode & recovers after fault condition removed			
Over Voltage Protection	115% - 135% Output Voltage	Latch Mode			
Over Temperature Protection	Thermistor	105°C ± 10°C			
	Туре	Latch Mode			
Dimming Control:	PWM	1 <adj<10v(500hz -="" 3khz<="" td=""></adj<10v(500hz>			
	Analogue	control by external voltage 1-10VD0			
	Resistance	10K - 100K S			
Set Up Time	Full Load, 230VAC	2 sec			
Storage Humidity		10% - 95% RF			
Operating Humidity		20% - 95% RH Non-Condensing			
Weight		3840			
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	100M Ω			
MTBF (+25°C)	using MIL-HDBK 217F	200 x 10 ³ hours			
Certifications:					
UL Standards	Report: E340696	UL8750, (based on) UL1310			
Safety Standards	Report: P201403013	EN61347-1; EN61347-2-13			

continued on next page

LIGHTLINE

AC/DC-Converter with 5 year Warranty



35 Watt PFC Single Output





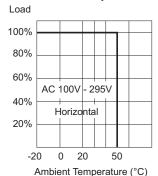


UL8750 Certified EN61347 Certified EN55015 Certified EN61547 Certified

RACD35-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



RACD35-A Series

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

Emission Report: HA130831-SACE EN55015, Class B

IEC61000-3-2

IEC61000-3-3

FCC Report: HA130831-SAFD Report: HA130831-SACE

Part 15, Class B IEC61000-4-2, 3, 4, 5, 6, 8, 11

EMC

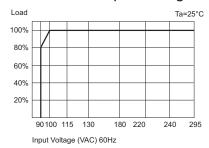
Immunity

IP67 Report: 14022002 EN61547

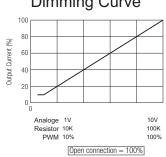
IEC/EN 60598-1 IEC/EN 60529

Technical Characteristics

Load vs. Input Voltage



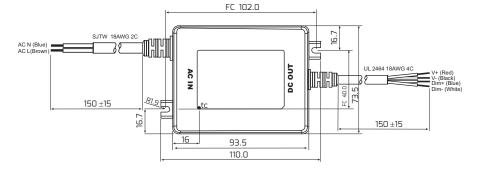
Dimming Curve



Maximum Number of LED drivers per circuit breakers

Condition	Circuit Breaker	Circuit Breaker Current			
	Тур	10A	16A	20A	25A
115VAC, 10hm 90° phase angle	С	22	35	39	55
230VAC, 10hm	В	18	30	35	43
90° phase angle	С	29	46	55	69
277VAC, 10hm	В	21	34	41	50
90° phase angle	С	33	52	63	79

Package Style & Pinning





The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.