

# 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.

### Selection Guide

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	36	2500	9 - 12	80

NOT RECOMMENDED FOR NEW DESIGNS

### 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	0.5A
	230VAC	0.3A
Inrush Current (Max.)	264VAC	Cold Start 60A
Leakage Current	230VAC	<0.25mA
Output Current Accuracy (includes Line Regulation, Load Regulation and set-up tolerance)	±5%	
Isolation Voltage	3.75kVAC / 1 minute	
Short Circuit Protection	Hiccup mode & recovers after fault condition removed	
Over Voltage Protection	115% - 135% Output Voltage	Latch Mode
Over Temperature Protection	Thermistor	105°C ± 10°C
	Type	Latch Mode
<b>Dimming Control:</b>	PWM	1 < Adj < 10V (500Hz - 3kHz)
	Analogue	control by external voltage 1-10VDC
	Resistance	10K - 100KΩ
Set Up Time	Full Load, 230VAC	2 sec
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 <sup>3</sup> hours
<b>Certifications:</b>		
UL Standards	Report: E340696	UL8750, (based on) UL1310
Safety Standards	Report: P201403013	EN61347-1; EN61347-2-13

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

**RECOM**

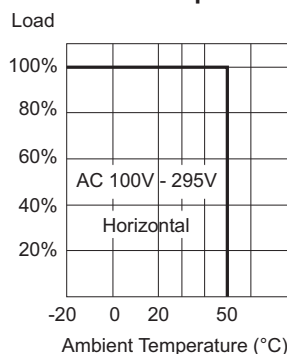
**35 Watt PFC  
Single  
Output**



**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.

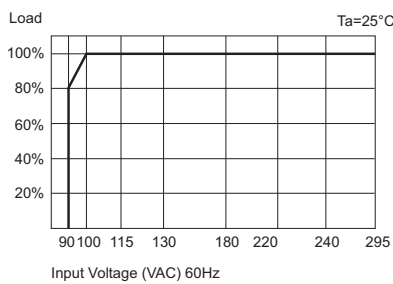
**Refer to Application Notes**

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

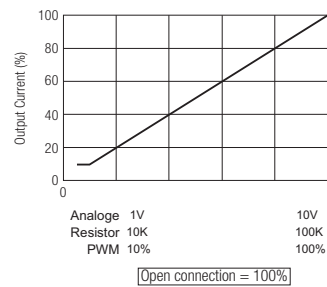
Emission	Report: HA130831-SACE	EN55015, Class B IEC61000-3-2 IEC61000-3-3
FCC	Report: HA130831-SAFD	Part 15, Class B
EMC	Report: HA130831-SACE	IEC61000-4-2, 3, 4, 5, 6, 8, 11
Immunity		EN61547
IP67	Report: 14022002	IEC/EN 60598-1 IEC/EN 60529

**Technical Characteristics**

**Load vs. Input Voltage**



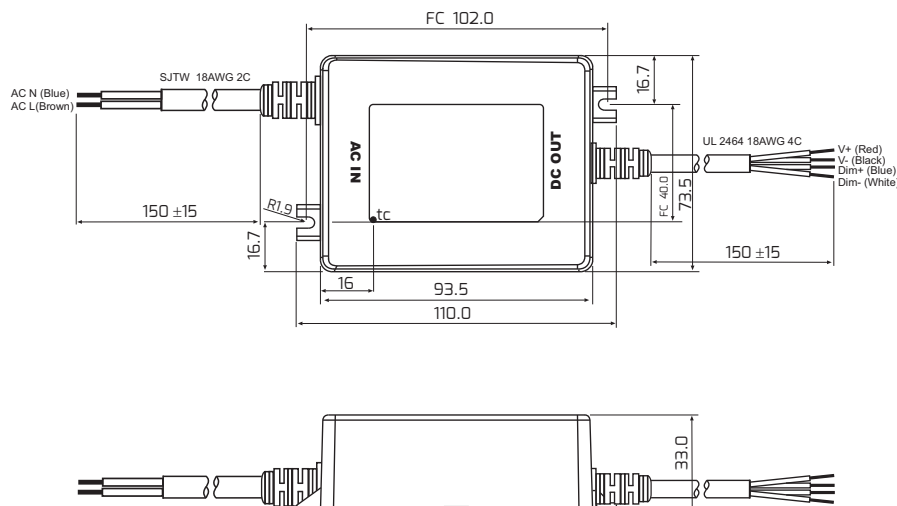
**Dimming Curve**



**Maximum Number of LED drivers per circuit breakers**

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

**Package Style & Pinning**



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