



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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	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	0.5A
	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
Dimming Control:	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**

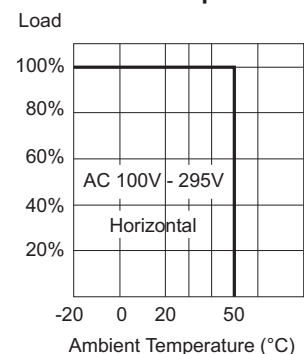
**35 Watt PFC**  
**Single**  
**Output**



**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.

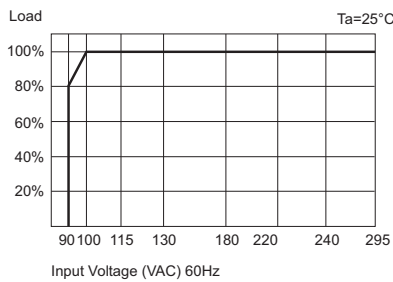
**Refer to Application Notes**

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

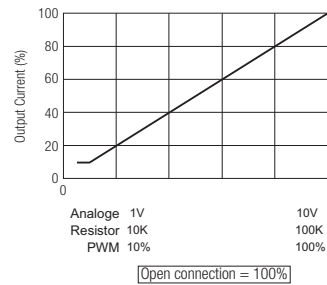
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FCC	Report: HA130831-SAFD	Part 15, Class B
EMC	Report: HA130831-SACE	IEC61000-4-2, 3, 4, 5, 6, 8, 11
Immunity		EN61547
IP67	Report: 14022002	IEC/EN 60598-1 IEC/EN 60529

**Technical Characteristics**

**Load vs. Input Voltage**



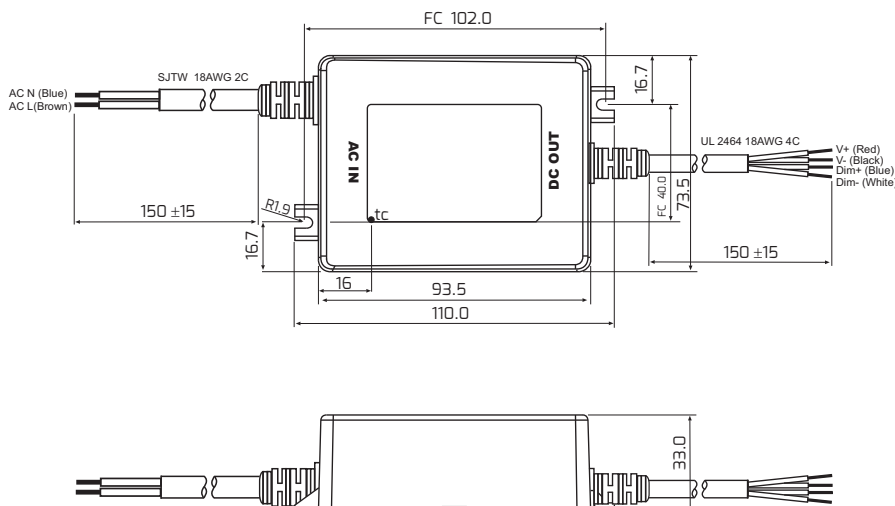
**Dimming Curve**



**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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