



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Features

LED DRIVER

- Universal AC Input 90-295VAC
- 250mA, 350mA, 500mA, 700mA Output
- Constant Current Operation
- Isolation 3.75kVAC
- Overcurrent and Short Circuit Protection
- IP67 Rated

Selection Guide

Part Number	Rated Power (W)	Output Current (mA)	Output Voltage (VDC)	Constant Current Range (VDC)	Efficiency (min.)
RACD07-250	7	250	28	14 - 28	75%
RACD07-350	7	350	21	10 - 20	70%
RACD07-500	7	500	14.5	5 - 14.5	70%
RACD07-700	7	700	11	3 - 10.5	70%

Specifications (measured at 115VAC / 230VAC and 25°C ambient temperature)

Input Voltage Range	90-295 VAC or 120-415VDC	
Rated Power	7W nom.	
Input Frequency Range	47-63Hz	
Current Accuracy	±3% typ. / ±7% max.	
Output Current Ripple	30mA _{p-p} typ.	
Voltage Accuracy (includes load, line and tolerance)	±5%	
AC Input Current	0.2A	
Start-up Time	<1S	
Hold-Up Time	18ms min.	
Operating Frequency	45kHz	
Isolation Voltage	3.75kVAC / 1 minute	
Short Circuit Protection	Continuous	
Over Current Protection	Constant Current Mode Protection	
Overload Protection	105% - 120% typ.	
No Load Voltage	RACD07-250	29.3V
	RACD07-350	21.8V
	RACD07-500	15.1V
	RACD07-700	11.9V
Output Overvoltage Protection	Zener Diode Clamp	
Storage Humidity	10% - 90% RH	
Operating Humidity	20% - 90% RH Non-Condensing	
Operating Temperature Range (free air convection)	Ambient Temperature	-20°C to +40°C
	Case Temperature	65°C max.
Storage Temperature Range	-40°C to +80°C	
IP Rating	IP67	
Isolation Resistance	100MΩ / 500VDC at 25°C	
PCB Material	(UL94V-0)	Plastic Resin with Fibreglass
Case Material	(UL94V-0)	Plastic
Weight	74g	
Dimension	57 x 41 x 24mm	
Packing Quantity	25pcs	

continued on next page

LIGHTLINE
AC/DC-Converter
with 3 year Warranty

RECOM

7 Watt
Single
Output



UL 8750 Certified
EN 61347 Certified
EN 61347-2-13 Certified

RACD07

Refer to Application Notes

Specifications (measured at 115VAC / 230VAC and 25°C ambient temperature)

Certifications

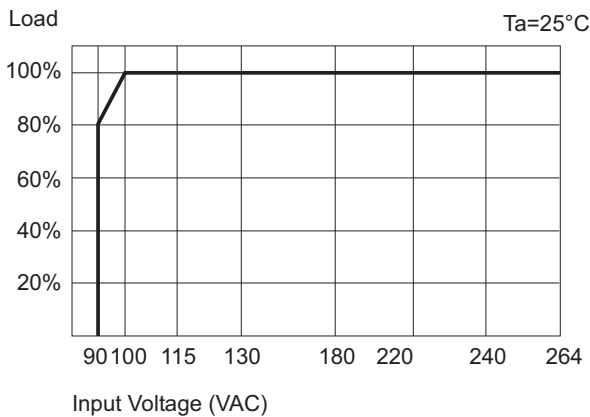
UL General Safety	(E340696)	UL8750 (based on 1310)
General Safety	(Report 1201032E-01)	EN61347-1
LVD Safety	(Report PSE101-0791)	EN61347-2-13
EMC Immunity	(Report 1307026E-01)	EN61547
EMC Harmonics	(Report 1307026E-01)	EN61000-3-2
EMC Flicker	(Report 1307026E-01)	EN61000-3-3
EMC Emissions	(Report 1307026E-01)	EN55015
Design Lifetime		70 x 10 ³ hours max.
MTBF (+25°C)	using MIL-HDBK 217F	200 x 10 ³ hours min.

Notes:

1. 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.
2. The use of a circuit breaker with C-characteristic is recommended.

Typical Characteristics

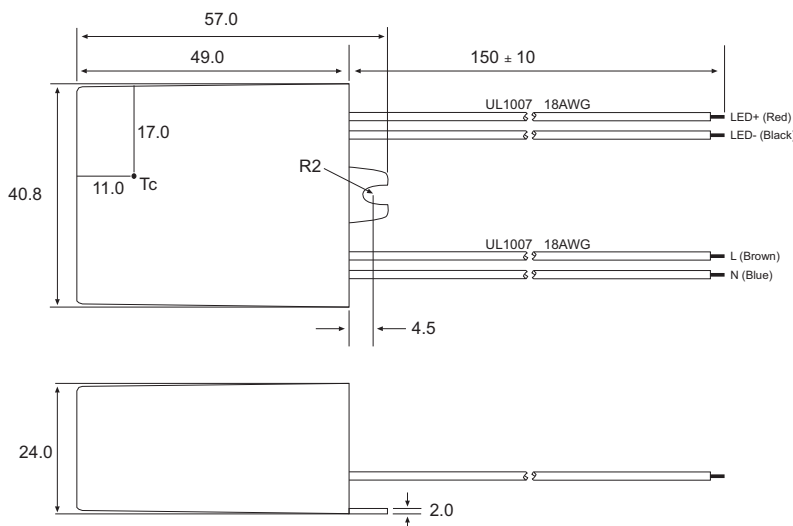
Input Voltage vs. Output Load



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	101	128	171	228
230VAC, 10hm 90° phase angle	B	61	100	121	150
	C	121	164	221	291
277VAC, 10hm 90° phase angle	B	70	115	139	172
	C	139	188	254	334

Package Style & Pinning



Wire Connections

Wire	Function
Red	LED+
Black	LED-
Brown	VAC in (L)
Blue	VAC in (N)

Tolerance
XX.X = +/- 0.2mm

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