Features Constant Current LED Driver

- 7W Class II AC-DC LED power supply
- Suitable for high brightness LED
- 250mA, 350mA, 500mA and 680mA constant current operation
- 3.75kVAC isolation
- Fused input and SCP, OCP, OVP, OLP
- IP67 rated

Description

The RACD07 is a constant current 7W AC/DC source for LED lighting with a wide input voltage range. The LED drivers are available with constant current outputs of 250mA, 350mA, 500mA or 680mA. The series is IP67 rated and suitable for use in dry, damp or wet areas. RACD07 drivers have a 3 year warranty.

Selection Gui	ide				
Part Number	Input Voltage Range	Mo		Efficiency min.	Rated Power max.
	[VAC]	[VDC]	[mA]	[%]	[W]
RACD07-250	90-295	14-28	250	75	7
RACD07-350	90-295	10-20	350	70	7.3
RACD07-500	90-295	5-14.5	500	70	7.2
RACD07-700	90-295	3-10.5	680	70	7.1
RACD07-700	90-295	3-10.5	680	70	7

All LED Drivers may not be used without a load. They must be switched on the primary side only.

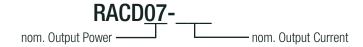
Noncompliance may damage the LED or reduce its lifetime.

Notes:

Note1:

Constant current operation region is within 75%-100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.

Model Numbering



Specifications (measured @ ta= 25°C and 115/230VAC)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Innut Voltage Dange		90VAC	230VAC	295VAC
Input Voltage Range		120VDC		415VDC
Input Current	full load, 100VAC			200mA
Inrush Current	230VAC			10A
No Load Power Consumption	230VAC			0.5W
Input Frequency Range		47Hz		63Hz
Power Factor		0.50		
Start-up Time				1s
Hold-up Time		18ms		
Set-up Time	full load, 230VAC			0.5s
Internal Operating Frequency			45kHz	
Output Ripple Current (2)	20MHz BW		30тАр-р	

Notes:

Note2: Measured with a 12" twisted pair-wire terminated with $0.1\mu F$ & $47\mu F$ parallel capacitor continued on next page



RACD07

7 Watt Constant Current Single Output













UL8750 certified UL1310 certified CSA-C22.2 No. 223-M91 certified CSA-C22.2 No. 250.13-12 certified IEC/EN61347 certified IEC/EN61347-2-13 certified EN55015 compliant EN61547 compliant EAC

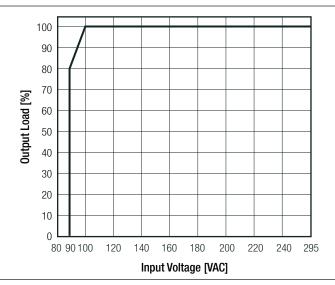


RACD07

Series

Specifications (measured @ ta= 25°C and 115/230VAC)





REGULATIONS				
Parameter	Condition	Value		
Output Voltage Accuracy	includes: line, load and tolerance	±5%		
Output Current Accuracy		±3% typ. / ±7% max.		

PROTECTION		
Parameter	Condition	Value
Internal Input Fuse		T1A, slow blow
Short Circuit Protection (SCP)		Hiccup Mode, auto recovery after fault condition is removed
Overload Protection (OLP)		105% - 120% typ.
Over Current Protection (OCP)		Constant current mode protection
Isolation Voltage	I/P to O/P	3.75kVAC / 1 minute
Isolation Resistance	500VDC	100M Ω min.

Notes:

Note3: Refer to local wiring regulations if input over-current protection is also required

Maximum loading of automatic circuit breakers*

* @ 115VAC, 10hm, 90° phase angle and max. load

Circuit Breaker	Circ	uit Brea	ker Cur	rent
Тур	10A	16A	20A	25A
С	101	128	171	228

* @ 230VAC, 10hm, 90° phase angle and max. load

Circuit Breaker	Circuit Breaker Current		rent	
Тур	10A	16A	20A	25A
В	61	100	121	150
С	121	164	221	291

* @ 277VAC, 10hm, 90° phase angle and max. load

Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
В	70	115	139	172
С	139	188	254	334

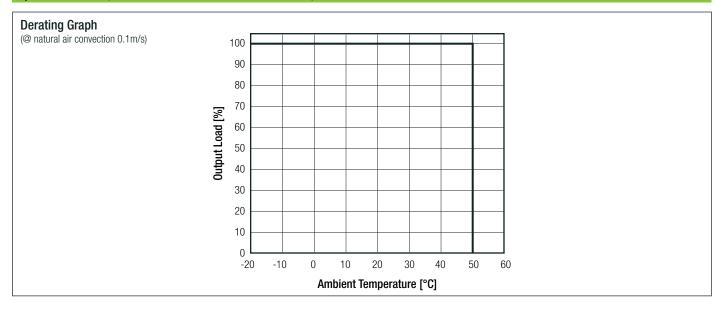
ENVIRONMENTAL				
Parameter	Condition	Value		
Operating Temperature Range	@ natural convection 0.1m/s, full load	-20°C to +50°C		
Max. Case Temperature		+85°C		
Operating Humidity	non condensing	20% - 90% RH		
IP Rating		IP67		
Vibration	10-500Hz, 2G; 10 minute/cycle	1 cycle period for 60 min each along X, Y and Z axes		
Design Lifetime	+25°C ambient	70 x 10 ³ hours		
MTBF	according to MIL-HDBK-217F, G.B. +25°C	200 x 10 ³ hours		
continued on next page				



RACD07

Series

Specifications (measured @ ta= 25°C and 115/230VAC)



SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report Number	
Standard for LED Equipment for use in Lighting Products		UL8750, 1st Edition, 2009
Standard for Class 2 Power Units	F0.40000 1 7	UL1310, 6th Edition, 2011
LED Equipment for Lighting Applications	E340696-1-7	CSA-C22.2 No. 250.13-12
Canadian Standard for Powr Supplies with Extra-Low-Voltage Class 2 Outputs		CSA C22.2 No. 223-M91
Safety of control gear for LED modules		IEC/EN61347-2-13, 2nd Edition 2014
Safety requirements for lamp controlgear	PSE102-0283	IEC61347-1, 3rd Edition, 2015 EN61347-1:2015
RoHS2		RoHS-2011/65/EU + AM-2015/863
EAC	RU Д - AT.AB49.B.09571	TP TC 004/2011
EMC Compliance	Condition	Standard / Criterion
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment		EN55015:2013 + A1:2015, Class B
Equipment for general lighting purposes – EMC immunity requirements		EN61547:2009
Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement		CISPR22, 3rd Edition, 1997, Class B
Radio Frequency Devices, Subpart B - Unintentional Radiators		47 CFR, FCC Part 15 Subpart B, Class B
Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz		ANSI C63.4:2009
Alternating Current High Voltage Power Systems		Canadian ICES-003 issue 4, 2004
ESD Electrostatic discharge immunity test	±8, 4, 2kV Air Discharge, ±4, 2 kV Contact Discharge	IEC61000-4-2:2008 Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	IEC61000-4-3:2006 + A2:2010 Criteria A
Fast Transient and Burst Immunity	±0.5, ±1kV AC Input ±0.5kV DC Output	IEC61000-4-4:2012, Criteria A
Surge Immunity	±0.5, ±1kV AC Input	IEC61000-4-5:2014, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	AC and DC Port: 3V	IEC61000-4-6:2013, Criteria A
Power Frequency Magnetic Field Immunity	3A/m at 50/60Hz	IEC61000-4-8:2009, Criteria A
Voltage Dine and Interruptions	Dips: >95%	IEC61000-4-11:2004 Criteria B
Voltage Dips and Interruptions	Dips: 30%	IEC61000-4-11:2004 Criteria B
Limits for harmonic current emissions		IEC61000-3-2, 2014
Limitation of voltage fluctuations/flicker in low-voltage systems		IEC61000-3-3, 2013

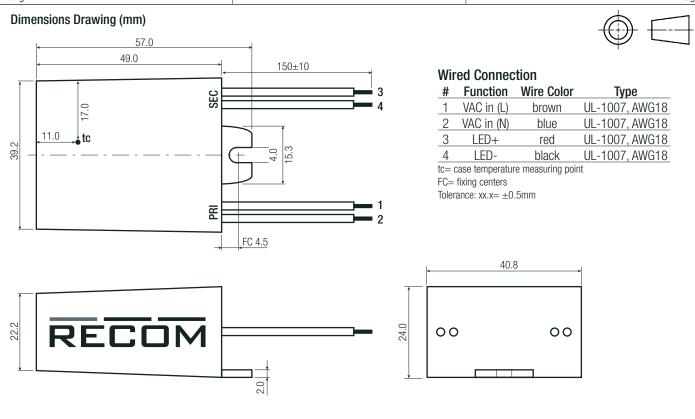


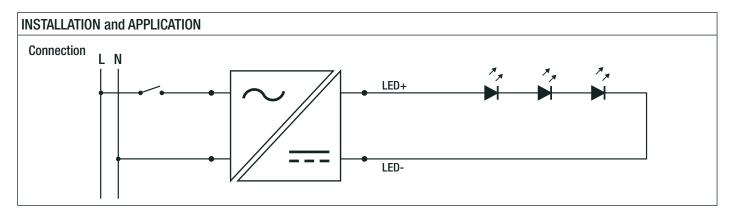
RACD07

Series

Specifications (measured @ ta= 25°C and 115/230VAC)

DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
Material	case	plastic (UL94V-2)	
	potting	silicone (UL94V-0)	
Dimension (LxWxH)		57.0 x 40.8 x 24.0mm	
Weight		75g	





PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	cardboard box	286.0 x 201.0 x 88.0mm		
Packaging Quantity		25pcs		
Storage Temperature Range		-40°C to +85°C		
Storage Humidity	non condensing	10% - 90% RH		

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Power Supplies category:

Click to view products by RECOM POWER manufacturer:

Other Similar products are found below:

ESS015W-1000-12 PDA-WIFI PIFC-K250F PITB-K222A ALD-514012PJ134 LB240S24KH LMH020-SPLC-0000-0000001 LMD600-0100-C1A7-7030000 79534 79535 EUG-200S210DT ESS030W-1050-21 ESS030W-0900-32 BPOXL 4-12-035 ESS010W-0350-24 ESS010W-0200-42 ESM060W-1400-42 PDA080B-1A0G PDA150B-S1A5G SLM140W-1.05-130-ZA ESS015W-0700-18 EUD-150S350DVA LWA320-C420-ARK-B HVG-240-48AB HVG-320-36AB HVG-320-54AB ELG-240-C1400AB EUK-150S105DV BXCS-12Z-N2P-B1-A BXPR-WN-01-A LN1224CV BXCS-12D-N2P-01-A BXCS-12W-N2P-01-A HBG-160-24AB 980100001200394 980060001200376 LC 14W 250-350MA FLEXC R ADV2 LC 24W 500-600MA FLEXC R ADV2 LC 36W 850-900MA FLEXC R ADV2 LC 50W 200-350ML 170V FLEXC LP SNC4 LC 25W 200-350ML 70V FLEXC LP SNC4 LC 35W 200-350ML 121V FLEXC LP SNC4 LCBI 10W 350MA PHASE-CUT/1-10V LP LC 13W 300MA FIXC SC ADV2 LC 44W 1050MA FIXC SC ADV2 LC 38W 900MA 42V FIXC SRL ADV2