Features TRIAC Dimmable LED **Driver**

- Triac –dimmable with leading or trailing edge dimmers
- Class II with SELV output (no earth required)
- Extra-large screw terminals and integrated cable clamps for easy installation
- Power factor corrected >0.95 • Dimming range 1..100%
- Compatible with a wide range of dimmers

Description

The RACT09-xxx series are low cost, triac-dimmable, constant current 9W LED drivers available with either 350mA, 500mA or 700mA full-range outputs. The drivers are Class II (double insulated) meaning no earth connection is required. The phase angle dimming works with leading or trailing edge dimmers. The RACT09 is suitable for indoor locations up to 50°C ambient temperature and is certified for building into furniture for applications such as dimmable shelf lighting, cove lighting or accent lighting. It is CE marked (LVD + EMC + RoHS), EAC and has IEC61347-1/IEC61347-2-13 CB report certification.

Input Voltage Range [VAC]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency min. @rated loa [%]	Output d Power [W]
198-264	13-26	350	80	9
198-264	9-18	500	81	9
198-264	7-13	700	76	9
	Voltage Range [VAC] 198-264 198-264	Voltage Range [VAC] Voltage Range [VDC] 198-264 13-26 198-264 9-18	Voltage Range [VAC] Voltage Range [VDC] Current [mA] 198-264 13-26 350 198-264 9-18 500	Voltage Range Voltage Range Current min. @rated loa [VAC] [VDC] [mA] [%] 198-264 13-26 350 80 198-264 9-18 500 81

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.

Specifications (measured @ Ta= 25°C, 240VAC, rated load unless otherwise specified)

RACT09-

BASIC CHARACTERISTICS						
Parameter	Condition	Min.	Тур.	Max.		
Input Voltage Range		198VAC	230VAC	264VAC		
Input Current				60mA		
Inrush Current	full load			5A		
No Load Power Consumption				1W		
Input Frequency Range		50Hz		60Hz		
Power Factor	full load	0.95				
continued on next page						

RECOM **AC/DC** Converter

RACT09

9 Watt



TRIAC Dimmable **Single Output**



IEC/EN61347 certified IEC/EN61347-2-13 certified EN61547 certified EN62493 certifed EN55015 compliant **CB** report

Model Numbering

Output Power ·

Output Current

RECOM AC/DC Converter

RACT09 Series

Specifications (measured @ ta= 25°C, 240VAC, rated load unless otherwise specified)

Parameter	Condition	Min.	Тур.	Max.
THD	full load			25%
Start-up Time				500ms
Internal Operating Frequency			60kHz	
	RACT09-350			175mA
Output Ripple Current (1)	RACT09-500			350mA
	RACT09-700			900mA

Note1: Measured at 20MHz BW by using a 12" twisted pair-wie terminated with a 0.1µF and 47µF capacitor parallel across output

REGULATIONS				
Parameter	Condition	Value		
Output Accuracy		±5% typ.		
Load Regulation		5% max.		
Line Regulation		5% max.		

PROTECTION							
Parameter	Co	ondition		Value			
Input Fuse			fusible resistor				
Short Circuit Protection (SCP)			Latch OFF, auto	recovery after fault condition is removed			
Over Voltage Protection (OVP)	RAC	CT09-350 CT09-500 CT09-700	31VDC max. 25VDC max. 17VDC max.	Latch OFF, auto recovery after fault condition is removed			
Over Load Protection (OLP)			Latch OFF, aut	Latch OFF, auto recovery after fault condition is removed			
Over Temperature Protection (OTP)		110°C	Latch OFF, aut	o recovery after fault condition is removed			
Isolation Voltage	I/P to O/P	tested for 1 minute		3.75kVAC			
Leakage Current	5mA max.						
Movimum loading of automatic airquit broakarat							

Maximum loading of automatic circuit breakers*

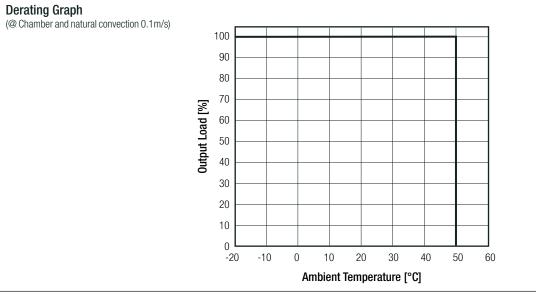
* @ 230VAC, 10hm,	90°	phase	angle	and	max.	load
-------------------	-----	-------	-------	-----	------	------

Circuit Breaker	Circuit Breaker Current				
Тур	10A	16A	20A	25A	
В	36	57	69	85	
С	57	87	109	134	

ENVIRONMENTAL				
Parameter	Condition	Value		
Operating Temperature Range	without derating @ natural convection 0.1m/s (see graph)	-20°C to +50°C		
Max. Case Temperature	at tc point	+80°C max.		
Operating Humidity	non-condensing	5-85% RH		
IP Rating		IP20		
Pollution Degree		PD2		
Design Lifetime	+25°C ambient	>30 x 10 ³ hours		

continued on next page

Specifications (measured @ Ta= 25°C, 240VAC, rated load unless otherwise specified)



SAFETY AND CERTIFICATIONS		
Certificate Type (Safety)	Report Number	Standard
Lamp controlgear Part 1: General and safety requirements (CB Scheme)	325797	IEC61347-1:2007 2nd Edition + A2:2012
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (CB Scheme)	325797	IEC61347-2-13:2014 2nd Edition
Lamp controlgear Part 1: General and safety requirements (LVD)		EN61347-1:2015
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (LVD)		EN61347-2-13:2014 + A1:2017
Lamp controlgear Part 1: General and safety requirements	325797	EN61347-1:2008 + A2:2013
Lamp controlgear Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	325797	EN61347-2-13:2014
EAC	RU-AT.49.09571	TP TC 004/2011
RoHS 2+		RoHS 2011/65/EU + AM2015/863
EMC Compliance	Condition	Standard / Criterion
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment		EN55015:2013 + A1:2015
Equipment for general lighting purposes – EMC immunity requirements	305985	EN61547:2009
Assessment of lighting equipment related to human exposure to electromagnetic fields		EN62493:2015
ESD Electrostatic discharge immunity test	Air ±8kV, Contact ±4kV	EN61000-4-2:2009, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3:2006 + A2:2010, Criteria A
Fast Transient and Burst Immunity	AC Power Port: ±1kV DC Power Port: ±0.5kV	EN61000-4-4:2012, Criteria A
Surge Immunity	AC Power Port: ±0.5kV	EN61000-4-5:2014, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	3V/m	EN61000-4-6:2014, Criteria A
Voltage Dips and Interruptions	Voltage Dips >95%	EN61000-4-11:2004, Criteria B
Voltage Dips and Interruptions	Voltage Dips 30%	EN61000-4-11:2004, Criteria B
Limits of Harmonic Current Emissions		EN61000-3-2:2014, Class C
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013, Clause 5

RECOM **AC/DC** Converter

RACT09 Series

DIMENSION and PHYSICAL CHARACTERIS	STICS				
Parameter	Туре				Value
Material	case				stic (UL94V-2
	РСВ				FR4 (UL94V-0
Package Dimension (LxWxH)				109.0 x 4	0.0 x 22.0mr
Package Weight					70g typ
Dimensions Drawing (mm)					
109.0					
N L ⊒	40.0	rec tc= FC	re stripping length: commended tighter = case temperature = fixing centers lerance: xx.x= xx.xx=	ning torque: 0.25Nm e measuring point ±1.0mm	
	22.0				
Bottom View	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Connection v	via Screw Tel Solid Wire	minal Stranded Wire ⁽²⁾	AWG
			0.75-2.5mm ²	0.75-2.5mm ²	20-14
			0.75-2.5mm ²	0.75-2.5mm ²	20-14
FC 13.3		LED+	0.5-2.5mm ²	0.5-2.5mm ²	21-14

66.1 15.4 0.0 15.0 **Top View** +

SEC

without cable cover's

Ν

PRI

27.5

6.4

<u>R1.7</u>

FULCTION	Solid Wile	Suanueu wire V	AWG
VAC in (N) 0.75-2.5mm ²		0.75-2.5mm ²	20-14
VAC in (L)	0.75-2.5mm ²	0.75-2.5mm ²	20-14
LED+	0.5-2.5mm ²	0.5-2.5mm ²	21-14
LED-	0.5-2.5mm ²	0.5-2.5mm ²	21-14

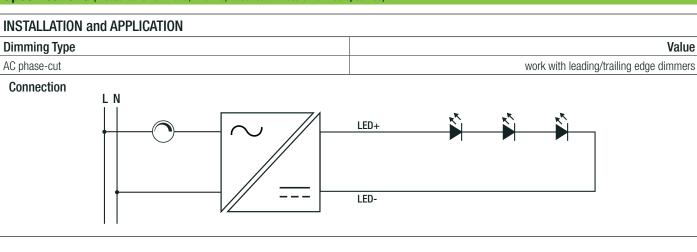
Notes:

Note2: The use of sleeve or ferrule terminations is recommended

RECOM AC/DC Converter

RACT09 Series

Specifications (measured @ Ta= 25°C, 240VAC, rated load unless otherwise specified)



PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	cardboard box	270.0 x 127.0 x 48.0mm		
Packaging Quantity		10pcs		
Storage Temperature Range		-20°C to +70°C		
Storage Humidity	non-condensing	5-85% 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 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 ESS010W-0500-12 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 C SNC LC 10W 250MA FIXC SC SNC2 LC 35W 800MA FIXC SR ADV2 LC 38W 900MA FIXC SR ADV2 LC 34W 800MA FIXC SC ADV2 LC 44W 1050MA FIXC SC ADV2 LC 38W 900MA 42V FIXC SRL ADV2