Features	•
<b>TRIAC</b> 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 RACT25-xxx series are low cost, triac-dimmable, constant current 25W LED drivers available with either 500mA, 700mA or 1.05A 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 RACT25 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 (LVD + EMC + RoHS) + EAC marked and has IEC61347-1/IEC61347-2-13 CB report certification.

## RECOM **AC/DC** Converter

### RACT25

25 Watt



**TRIAC Dimmable Single Output** 

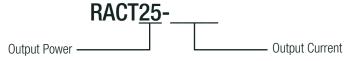
Selection Guide					
Part Number	Input Voltage Range [VAC]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency min. @rated loa [%]	Output Id Power [W]
RACT25-500	198-264	25-50	500	85	25
RACT25-700	198-264	18-36	700	85	25
RACT25-1050	198-264	12-24	1050	84	25

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.



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

### **Model Numbering**



<b>Specifications</b> (measured @ Ta= 25°C, 240VAC, rated load unless otherwise specified)					
BASIC CHARACTERISTICS					
Parameter	Condition	Min.	Тур.	Max.	
Input Voltage Range		198VAC	230VAC	264VAC	
Input Current				160mA	
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

# RACT25 Series

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

Parameter	Condition	Min.	Тур.	Max.	
THD	full load			20%	
Start-up Time				500ms	
Internal Operating Frequency	RACT25-500		77kHz		
	RACT25-700, 1050		65kHz		
	RACT25-500			170mA	
Output Ripple Current (1)	RACT25-700			260mA	
	RACT25-1050			440mA	

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.

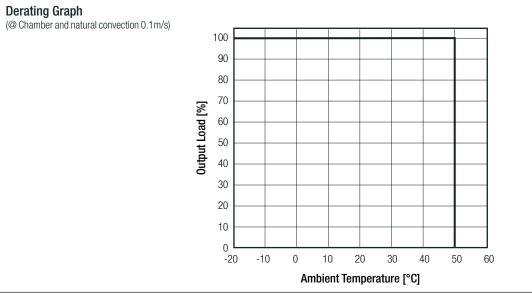
PROTECTION				
Parameter	Coi	ndition		Value
Input Fuse				fusible resistor
Short Circuit Protection (SCP)			Latch OFF, auto reco	overy after fault condition is removed
Over Voltage Protection (OVP)	RAC	T25-500 T25-700 '25-1050	58VDC max. 45VDC max. 32VDC max.	Latch OFF, auto recovery after fault condition is removed
Over Load Protection (OLP)			Latch OFF, auto reco	overy after fault condition is removed
Over Temperature Protection (OTP)	1	10°C	Latch OFF, auto reco	overy after fault condition is removed
Isolation Voltage	I/P to O/P	tested for 1 minute		3.75kVAC
Leakage Current				5mA max.
Maximum loading of automatic cir	cuit breakers*	· · ·		
	* @ 230VAC, <sup>-</sup>	10hm, 90° phase ang	le and max. load	
	Circuit Breaker	Circuit Brea	ker Current	

GILCUIT DIEAKEI	Gilcuit Dieaker Guiteitt			
Тур	10A	16A	20A	25A
В	24	38	46	58
С	38	62	74	92
	-			

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 <sup>3</sup> hours

continued on next page

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



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

## RECOM **AC/DC** Converter

# RACT25 **Series**

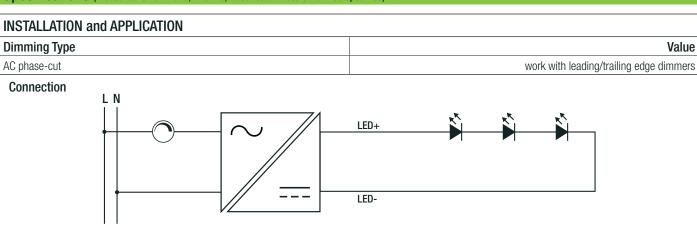
DIMENSION and PHYSICAL C	TANAGILINISTIUS					
arameter		Туре				Va
laterial		case			þ	lastic (UL94
		PCB			100.0	FR4 (UL94
ackage Dimension (LxWxH)					120.0 x	45.0 x 28.0
ackage Weight						100g
Dimensions Drawing (mm)					-	
·	120.0					
		I SEC	45.0	recommended tc= case temp FC= fixing cer Tolerance: x	length: 6-7mm I tightening torque: 0.25N perature measuring point tters x.x= ±1.0mm x.x= ±0.5mm	m
			28.0			
<b>B</b> <b>B</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b>	ottom View	tc 42.0	Connectior Function VAC in (N)	n via Screw Tei Solid Wire 0.75-2.5mm²	r <b>minal</b> Stranded Wire <sup>(2)</sup> 0.75-2.5mm <sup>2</sup>	<b>AWG</b> 20-14
l <del>≺ → −</del>	ithout cable cover's		VAC in (L)	0.75-2.5mm <sup>2</sup>	0.75-2.5mm <sup>2</sup>	20-14
		14.0	LED+	0.5-2.5mm <sup>2</sup>	0.5-2.5mm <sup>2</sup>	21-14
18.3	77.1	14.6	LED-	0.5-2.5mm <sup>2</sup>	0.5-2.5mm <sup>2</sup>	21-14
R1.7	Top View		Notes:	use of sleeve or ferr	rule terminations is reco	ommended

### RECOM **AC/DC** Converter

## RACT25 **Series**

Value

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



PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	cardboard box	330.0 x 137.0 x 55.0mm		
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.

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