Features LED DRIVER

- 20W Dimmable AC-DC LED Power Supply
- 350mA, 500mA, 700mA or 1050mA Outputs
- ENEC, UL, RCM and CB Certified
- Deep Dimming to 0% *
- Active Power Factor Correction > 0.95
- 3.75kVAC Isolation
- Output Connector to avoid miswiring
- 5 Year Warranty

Description

The RACT20 series is a constant current dimmable AC/DC source for driving high power LED applications. The phase angle dimming function works with leading or trailing edge dimmers. This driver is suitable for indoor LED lighting systems and powers 5-15 high power LEDs or single LED arrays from 350mA up to 1A.

Selection Guide

Part Number	Input Voltage (VAC)	Output Current (mA)	Output Voltage (VDC)	Dimming Control	Efficiency typ. (%)	Max. # LEDs
RACT20-350	230	350	30-56	Triac	82	15 x 1W
RACT20-500	(2)0	R ₀ =(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	82	2 x 1W
RACT20-700	230	700	15-28	Triac	81	8 x 2W, 8+8 x 1W
RACT20-1050	230	1050	12-15	Triac	81	5 x 3W, 5+5 x 2W
RACT20-350-US	115	350	30-56	Triac	82	15 x 1W
RACT20-500-US	115	E500 A	1 39	_Triar_	32	12 x 1W
RACT20-700-US	115	700	15-28	Tillac	N ≥ ₀1	8 x 2W, 8+8 x 1W
RACT20-1050-US	115	1050	12-18	Triac	81	5 x 3W, 5+5 x 2W

nonifications (typical at 05%) namin	al input valtaga, ratas	Loutout ourrest upless atherwise aposition
		I output current unless otherwise specified)
Input Voltage Range	RACT20-xxxx	180-264VAC
	RACT20-xxxx-US	90-135VAC
Rated Power		20W max.
Output Current Accuracy		±5% max.
Input Current	115VAC	0.4A max.
	230VAC	0.2A max.
Input Frequency Range		47-63Hz
Power Factor	Full Load	>0.95
THD	Full Load, 115VAC	8% max.
	Full Load, 230VAC	11% max.
Leakage Current		<0.75mA
Open Circuit Voltage	350mA	60VDC max.
(No Load Vout)	500mA	44VDC max.
	700mA	33VDC max.
	1050mA	22VDC max.
Output Ripple and Noise	350mA, 500mA	4.5Vp-p max.
	700mA, 1050 mA	4.0Vp-p max.
Short Circuit Protection		Hiccup mode, Auto recovery
Overtemperature Protection		95°C ±10°C (RT1) Hiccup mode, Auto recovery
Isolation Voltage		3.75kVAC / 1 minute
Efficiency at Full Load		see selection guide
Dimming	AC phase-cut dim	ming, work with leading/trailing edge dimmers
Operating Temperature Range	Ambient Temperatu	re -30°C to +50°C
(free air convection, according to CE/UL)	Case Temperature	85°C max.
Operating Temperature Range	Ambient Temperatu	re -30°C to +50°C
(free air convection, according to ENEC)	•	80°C max.
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LIGHTLINE

AC/DC-Converter with 5 year Warranty



20W Triac Dimmable LED Driver









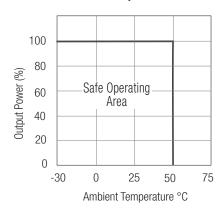
UL-8750 certified UL-60950-1 certified European Version only: ENEC 61347 certified

RACT20

* only US-Versions

Derating-Graph

(Ambient Temperature)



Refer to Application Notes



RACT20 Series

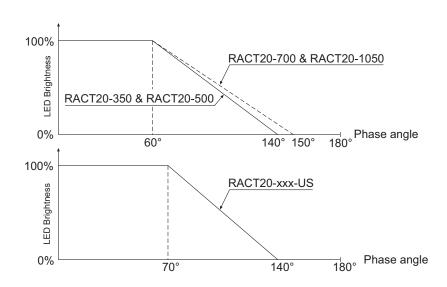
Specifications (typical at 25	c°C, nominal input voltage, rated output current unless otherwise spec	cified)
Storage Temperature		-40°C to +85°C
Relative Humidity		95% RH
EMC	design refer to EN55022	Class B
IP Rating	IP Rating suitable for indoor LED lighting system	IP20
Design Lifetime	25°C ambient	>70 x 10 ³ hours in operation
Package Weight		145g
Packing Quantity		1 pc.
PCB Material		Plastic Resin with Fibreglass (UL94V-0)
Case Material		Plastic
Connections	AC Input	
		Screw Terminal
	LED Output	Screw Terminal
	LED Output	5.5mm Socket with 2mm Pin
		(suiteable matching plug Switchcraft S760 or simila
Standards	ENEC Lamp Controlgear	EN61347-2-13:2006
		EN61347-1:2008
	Electrical Lighting, EMC Emissions	EN55015:2006 + A2:2009
	Limits for Harmonics Emissions	EN 61000-3-2:2006 + A2:2009
	EMC Compatability: Flicker and Voltage Variations	EN 61000-3-3:2006
	Electrical Lighting: EMC Immunity	EN 61547:2009
	RCM (21377)	AS/NZS 61347.1:2002, IEC 61347-2-13
	FCC	FCC15B
Certifications	LED Lighting Safety (E340696)	UL8750
	Information Technology Equipment - Safety	UL60950-1
		CAN/CSA C22.2 No. 60950-1-07
	PSE	J61347-1(H20), J61347-2-13(H21), J55015(H20)

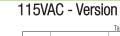
^{*}The triac dimmer must be capable of dimming down to zero

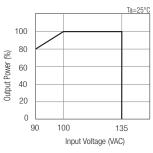
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Characteristics

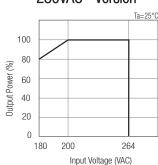
Dimming Response







230VAC - Version





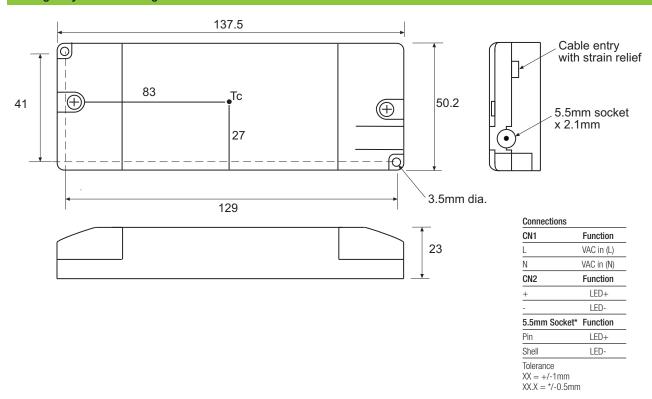
RACT20 Series

Characteristics

Maximum Number of LED drivers per circuit breakers

Condition	Circuit Breaker	Circuit Breaker Current		nt		
	Тур	10A	16A	20A	25A	
115VAC, 10hm 90° phase angle	С	47	68	84	105	
230VAC, 10hm 90° phase angle	В	36	57	69	85	
	С	57	87	109	134	
277VAC, 10hm 90° phase angle	В	41	65	80	98	
	С	65	99	125	154	

Package Style and Pinning



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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