Features

LED Driver

- 3W Class II AC-DC LED Power Supply
- 350mA, 500mA and 700mA CC/CV Output
- Fused Input and SCP, OVP, OLP, OTP
- 3.75kVAC Isolation
- IP66 Rated
- Low Cost



A compact universal AC input 3W constant current switching power module suitable for driving 1 - 6 high power LEDs. The output (dual constant voltage / constant current mode) current limit is fixed at 350mA, 500mA or 700mA. At lower output currents, the output is constant voltage. Connections are via 118mm long flying leads.



RACD03-PSE

3 Watt CC/CV **Single Output**

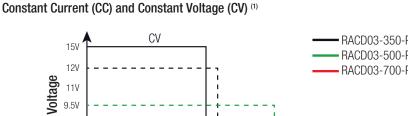
Selection Guide							
Part Number	nom. Input Voltage Range (VAC)	C(Mo (VDC)	-	•	/ ⁽¹⁾ ode (mA)	Efficiency typ. (%)	Rated Power nom./max. (W)
RACD03-350-PSE	100-120	3-12	350	15	0-300	72	3 / 4.2
RACD03-500-PSE	100-120	3-9.5	500	n	one	71	3 / 4.6
RACD03-700-PSE	100-120	3-4.5	700	6	0-600	62	3 / 3.15

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 at Ta= 25°C, nominal input voltage, rated load after warm up)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		-10%		+10%
Output Voltage Range		3VDC		15VDC
Input Current	full load, 100VAC			110mA
Input Frequency Range		47Hz		63Hz
Hold-up Time		18ms		
Output Ripple Current				0.1Ар-р



RACD03-350-PSE RACD03-500-PSE RACD03-700-PSE **Output Voltage** 6V 4.5V CC ¦CC 3V 0mA **Output Current** Nominal Current Limits Notes:

CV Mode is approved by Recom internal quality standard, but not certified according UL.



J61347-1(H20) Certified J61347-2-13(H21) Certified J55015(H20) Certified

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RACD03-PSE

Series

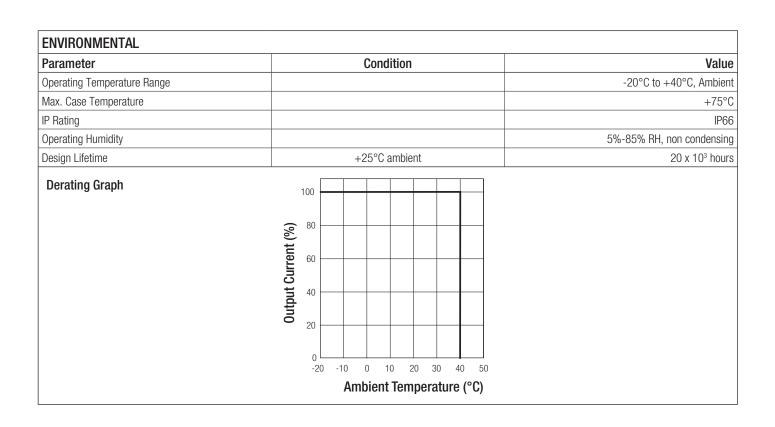
Specifications (measured at Ta= 25°C, nominal input voltage, rated load after warm up)

PROTECTION				
Parameter	Condition		Value	
Input Fuse			T1A, slow blow	
Short Circuit Protection (SCP)			continuous, current limit	
Overload Protection (OLP)			120% typ.	
		350mA	17V max.	
Output Over Voltage Protection (OVP)	Zener Diode Clamp	500mA	14V max.	
		700mA	8V max.	
Over Temperature Protection (OTP)			Shutdown, automatic resatart after cooling down	
Isolation Voltage	I/P to O/P		3.75kVAC / 1 minute	

Maximum loading of automatic circuit breakers*

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

Circuit Breaker	Circuit Breaker Current				
Тур	10A	16A	20A	25A	
С	221	247	337	430	



SAFETY AND CERTIFICATIONS			
Certificate Type (Safety)	Standard		
Safety of control gear for LED modules	J61347-1(H20) J61347-2-13(H20)		
EMC Compliance	Standard / Criterion		
Radio disturbance characteristics of electrical lighting equipment	J55015(H20)		

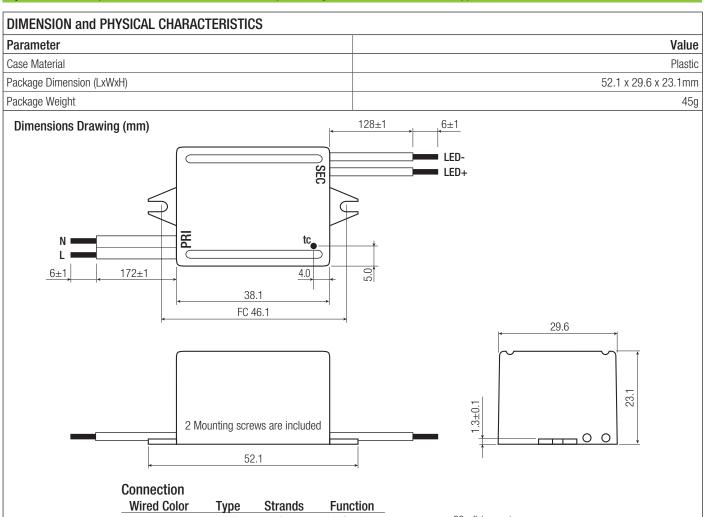
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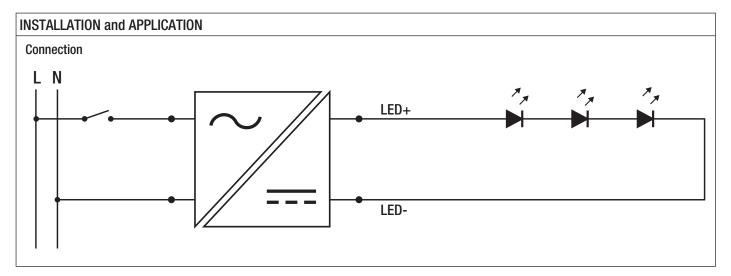
Series

Specifications (measured at Ta= 25°C, nominal input voltage, rated load after warm up)



Connection			
Wired Color	Type	Strands	Function
_1, white	VFF	42/0.15	VAC in (N)
2, white	VFF	42/0.15	VAC in (L)
3, blue	VSF	42/0.15	LED-
4, blrown	VSF	42/0.15	LED+

 $\begin{array}{l} \text{FC= fixing center} \\ \text{tc= case temperature measuring point} \\ \text{Tolerance:} \quad \text{xx.x=} \quad \pm 0.5 \text{mm} \\ \text{xx.xx=} \quad \pm 0.35 \text{mm} \end{array}$



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RACD03-PSE

Series

Specifications (measured at T_a = 25°C, nominal input voltage, rated load after warm up)

PACKAGING INFORMATION				
Parameter	Туре	Value		
Packaging Dimension (LxWxH)	Cardboard Box	75.0 x 50.0 x 50.0mm		
Packaging Quantity		1pcs		
Storage Temperature Range		-30°C to +80°C, Ambient		
Storage Humidity		5%-85% RH, non condensing		

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