### NOT RECOMMENDED FOR NEW DESIGNS (LAST TIME BUY: 301H APR 2020)

#### **Features**

3W Class II AC-DC LED power supply

• 350mA, 500mA and 700mA CC/CV output

Fused input and SCP, OVP, OLP, OTP

LED

**Driver** 

Description

118mm long flying leads.

• 3.75kVAC isolation

IP66 rated

Low cost



RECOM

AC/DC Converter





**Selection Guide** CC CV (1) Part Input Efficiency Rated Number Voltage Range Mode Mode typ. Power nom./max [VAC] [VDC] [mA] [VDC] [mA] [%] [W] RACD03-350-PSE 350 0-300 3 / 4.2 90-130 3-12 15 72 RACD03-500-PSE 71 3 / 4.6 90-130 3-9.5 500 none RACD03-700-PSE 90-130 3-4.5 700 6 0-600 62

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

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.

**Model Numbering** 

RACD<u>03</u>-\_\_-PSE

nom. Output Power

nom. Output Current







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

#### **Specifications** (measured @ Ta= 25°C, norm. (in, rated load and after warm-up unless otherwise stated)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		90VAC	115VAC	130VAC
Input Current	full load, 100VAC			110mA
Input Frequency Range		47Hz		63Hz
Hold-up Time		18ms		
Output Ripple Current				0.1Ар-р

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**PREFERRED ALTERNATIVES**Please consider these alternatives:

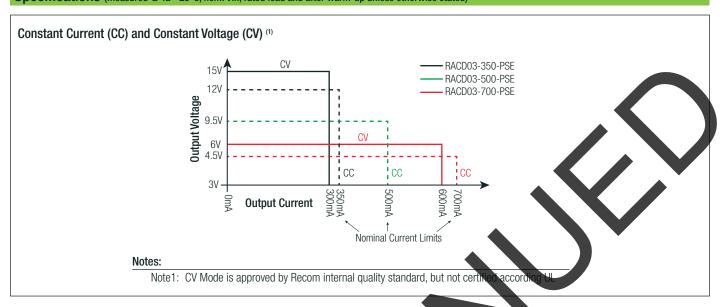
**RACD03 Series** 



## RACD03-PSE

**Series** 

Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)



PROTECTION		
Parameter	Condition	Value
Input Fuse (2)		T1A, slow blow
Short Circuit Protection (SCP)		continuous, current limit
Overload Protection (OLP)		120% typ.
	RACD03-350	17V max.
Output Over Voltage Protection (OVP)	zener diode clamp RACD03-500	14V max.
	RACD03-700	8V max.
Over Temperature Protection (OTP)		shutdown, automatic resatart after cooling down
Isolation Voltage	P to O/P	3.75kVAC / 1 minute

Notes:

Note2: Refer to local safety 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	Circuit Breaker Current			
Тур	10A	16A	20A	25A
С	221	247	337	430

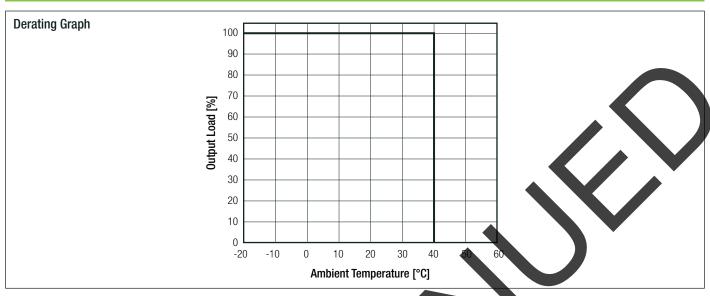
Parameter	Condition	Value
Operating Temperature Range		-20°C to +40°C
Max. Case Temperature		+75°C
IP Rating		IP66
Operating Humidity	non condensing	5%-85% RH
Design Lifetime	+25°C ambient	20 x 10 <sup>3</sup> hours

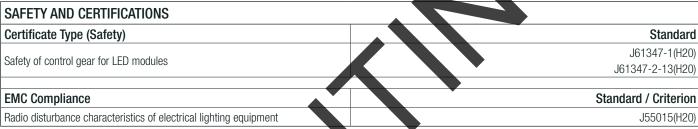


## RACD03-PSE

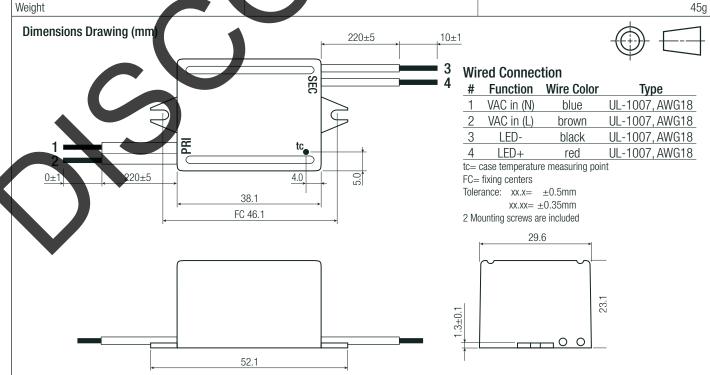
**Series** 

#### Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)





DIMENSION and PHYSICAL CHARACTERISTICS			
Parameter	Туре	Value	
	case	plastic (UL94V-2)	
Material	PCB	plastic resin with fibreglass (UL94V-0)	
	potting	silicone (UL94V-0)	
Dimension (LxWxH)		52.1 x 29.6 x 23.1mm	
Weight		45g	

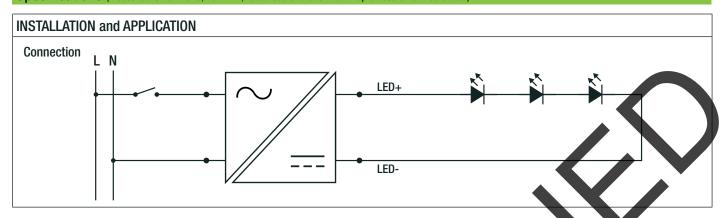




# **RACD03-PSE**

**Series** 

Specifications (measured @ Ta= 25°C, nom. Vin, rated load and after warm-up unless otherwise stated)



PACKAGING INFORMATION		
Parameter	Туре	Value
Packaging Dimension (LxWxH)	cardboard Box	265.0 x 80.0 x 115.0mm
Packaging Quantity		10pcs
Storage Temperature Range		-30°C to +80°C
Storage Humidity	non-conde <b>rts</b> ing	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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