Features LED Driver

- 3W Class II AC-DC LED Power Supply
- 350mA to 700mA CC/CV Output
- ENEC, UL, RCM and CB Certified
- Universal Input Voltage Range
- Fused Input and Protected Output
- **3kVAC** Isolation
- **IP66**
- Low Cost
- 3 Year Warranty

Description

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.

Selection Guide					
Part	CV Mode		CC Mode		Efficiency typ.
Number	(VDC)	(mA)	(VDC)	(mA)	(%)
RACD03-350	15	0-350	2.5-15	350	72
RACD03-500	11	0-500	2.5-11	500	71
RACD03-700	6	0-700	2.5-6	700	62

Specifications (typical at 25°C and after warm up time unless otherwise specified) 90-264VAC or 120-370VDC Input Voltage Range Rated Power 3W nom. / 5W max

Rated Power		3W nom. / 5W max.
Input Frequency Range		47-63 Hz
Output Voltage Range		2.5 - 15VDC max.
Inrush Current (<2mS)	230VAC	10A max.
Leakage Current	240VAC/50Hz	0.2mA typ.
Input Fuse	Built-in	T1A
Input Current	350mA Version	20mA
	500mA Version	25mA
	700mA Version	38mA
Output Current Accuracy (combined Toler	rance, Load Regulation and Line Regulation	±10%
Minimum Load	Open Circuit Protected	1 LED
Output Ripple		0.1Ap-p max.
Hold Up Time		18ms min.
Operating Frequency		66kHz typ.
AC RMS Isolation Voltage	I/P to O/P	3.75kV / 1 minute
Temperature Coefficient		±0.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection	Cor	ntinuous Current Limit
Output Overvoltage Protection		Zener Diode Clamp
Overtemperature Protection	Shutdown, Automatic rest	art after cooling down
Operating Temperature Range	Ambient Temperature	-20°C to +50°C
(free air convection, according to CE/UL)	Case Temperature	65°C max.
Operating Temperature Range	Ambient Temperature	-20°C to +40°C
(free air convection, according to ENEC)	Case Temperature	75°C max.
Storage Temperature Range		-25°C to +85°C
Humidity		95% RH max.
IP Rating		IP66
PCB Material	Plastic Resin with	Fibreglass (UL94V-0)
Case Material		Plastic
Weight		45g

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LIGHTLINE AC/DC-Converter with 3 year Warranty



3 Watt **Single Output**









UL-8750 Certified **EN-61347** Certified **ENEC Certified**

RACD03

Refer to Application Notes



RACD03 Series

Wire Connections

Function

VAC in (L)

VAC in (N)

LED+

LED-

Wire

Brown

Blue Red

Black

Tolerance

XX = +1mm/-0.5mm

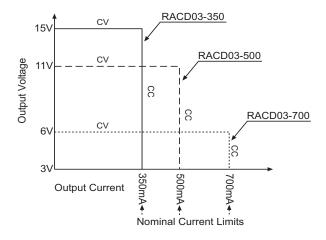
XX.X = +/- 0.25mm

Packing Quantity		10pc
Designed to meet Standards	Electrical Lighting, EMC Emissions	EN55015:2006 + A1: 2007 + A2:2009
	Limits for Harmonics Emissions	EN 61000-3-2:2006
	EMC Compatability: Flicker and Voltage Variations	EN 61000-3-3:2006
	Electrical Lighting: EMC Immunity	EN 61547:1995 + A1:2000
	Class II Power Supply Safety	UL1310
	FCC	FCC18A
Certifications	LED Lighting Safety (E340696)	UL8750
	RCM (U21376)	AS/NZS 61347.1:2002, IEC 61347-2-13
	ENEC General Safety	EN 61347-1: 2008
	ENEC Safety of AC supplied Control Gear for LED	Modules EN 61347-2-13: 2006
Design Lifetime	25°C ambient	>20 x 10³ hours in operation
Connections	AC Input Live	Brown Wire, AWG18, 172mm + 5-7mm stripped and tinned
	AC Input Neutral	Blue Wire, AWG18, 172mm + 5-7mm stripped and tinned
	LED +	Red Wire, AWG18, 128mm + 5-7mm stripped and tinned
	LED -	Black Wire, AWG18, 128mm + 5-7mm stripped and tinned

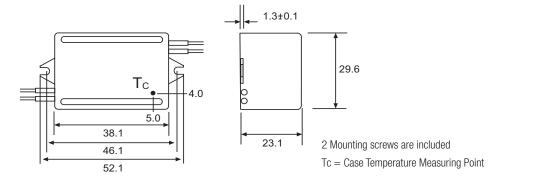
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Characteristics

Constant Current (CC) and Constant Voltage (CV) Graph



Package Style and Pinning



The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications. The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.