Features

- 3W Class II AC-DC LED Power Supply
- 350mA to 700mA CC/CV Output

LED Driver

- 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	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)

Input Voltage Range	90-24	40VAC or 120-370VDC
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 Verison	20mA
	500mA Version	25mA
	700mA Version	38mA
Output Current Accuracy (combined Toleran	ce, Load Regulation and Line Regulation	on) ±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 (input to output)	3.75kV / 1 minute ty	p., 3kV / 1 minute min.
Temperature Coefficient		±0.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection	C	ontinuous Current Limit
Output Overvoltage Protection		Zener Diode Clamp
Overtemperature Protection	Shutdown, Automatic res	start after cooling down
Operating Temperature Range	Ambient Temperature	-20°C to +40°C
(free air convection, according to CE/UL)	Case Temperature	75°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 wi	th Fibreglass (UL94V-0)
Case Material		Plastic
Weight		45g
		continued on next page

LIGHTLINE AC/DC-Converter with 3 year Warranty



3 Watt Single Output



UL-8750 Certified EN-61347 Certified ENEC Certified

E340696

RACD03

Please Read Application Notes

LIGHTLINE AC/DC-Converter

RACD03 Series

Specifications (typical at 25°C and after warm up time unless otherwise specified)

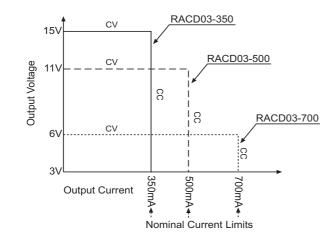
Packing Quantity		10pc
Designed to meet Standards	Electrical Lighting, EMC Emissions	EN55015:2006 + A1: 2007 + A2:2009
	Limits for Harmonics Emissions	EN 61000-3-2:2006
	EMC Compatibility: Flicker and Voltage Variations	EN 61000-3-3:2006
	Electrical Lighting: EMC Immunity	EN 61547:1995 + A1:2000
	Class 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 10 ³ 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

Note:

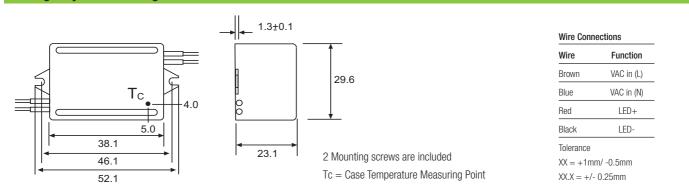
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

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.

Mouser Electronics

Authorized Distributor

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RECOM:

RACD03-350 RACD03-700 RACD03-500