Features LED Driver

- 6W AC-DC Class II LED Power Supply
- 350mA to 700mA CC/CV Output
- ENEC, UL, RCM and CB Certified
- Universal Input Voltage Range
- Fused Input, Protected Output
- 3kVAC Isolation
- Low Cost
- 3 Year Warranty

Description

A compact universal input 6W constant current switching power module suitable for driving up to 12 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.

Selection Gui	de					
Part Number	Nominal Input Voltage (VAC)	Input Current at full load (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs	Efficiency typ. (%)
RACD06-350	universal	120	2.5-24	350	6 x 1W	79
RACD06-500	universal	120	2.5-15	500	12 x 0.5W	70
RACD06-700	universal	120	2.5-12	700	3 x 2W	72

Specifications (typical at 25°C and after v	warm up time unless otherwi	ise specified)
Input Voltage Range		90-264VAC or 120-370VDC
Rated Power		6W nom. / 7.5W max.
Input Frequency Range		47-63 Hz
Power Factor	Full Load, 115VAC/230VAC	0.4
Output Voltage Range	350mA CC	2.5 - 22VDC
	0-300mA CV	24V typ.
	500mA CC	2.5 - 13VDC
	0-490mA CV	15V typ.
	700mA CC	2.5 - 10VDC
	0-600mA CV	12V typ.
Inrush Current (<2mS)	115VAC/230VAC	10A max.
Leakage Current	115VAC/240VAC - 60/50Hz	0.4mA typ.
Input Fuse (Built-in)	Standard	T2A
Input Current	Full Load, Nominal Vin	see table
Output Current Accuracy (combined Tolerand	ce, Load Regulation and Line Re	egulation) ±10%
Minimum Load	Open Circuit Protected	1 LED
Output Ripple		0.2Ap-p max.
Hold Up Time		18ms min.
Operating Frequency		132kHz max.
AC RMS Isolation Voltage (input to output)	3.75kV / 1 mi	nute typ., 3kV / 1 minute min.
Temperature Coefficient		±0.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection		Continuous Current Limit
Output Overvoltage Protection	350mA Version	24V Zener Diode Clamp
	500mA Version	14V Zener Diode Clamp
	700mA Version	12V Zener Diode Clamp
Overtemperature Protection	Shutdown, Autom	natic restart after cooling down
Operating Temperature Range	Ambient Temperature	-20°C to +40°C
(free air convection, according to CE/UL)	Case Temperature	70°C max.
Operating Temperature Range	Ambient Temperature	-20°C to +50°C
(free air convection, according to ENEC)	Case Temperature	70°C max.
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LIGHTLINE

AC/DC-Converter with 3 year Warranty



6 Watt Single Output









UL-8750 Certified EN 61347 Certified ENEC Certified

RACD06

Refer to Application Notes

continued on next page



RACD06 Series

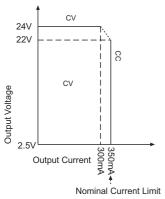
Specifications (typical at 25°C ar	nd after warm up time unless otherwise specified)	
Storage Temperature Range		-40°C to +85°C
Humidity		95% RH max.
IP Rating		IP20, Indoor Use Only
Weight		34g
Packing Quantity		10pc
PCB Material	(UL94V-0)	Plastic Resin with Fibreglass
Case Material	(UL94V-0)	Plastic
Designed to meet Standards	Electrical Lighting, EMC Emissions	EN55015:2006 + A1: 2007 + A2:2009
	Limits for Harmonics Emissions	EN 61000-3-2:2006
	EMC Compatibilty: 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 (U21382)	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	Screw terminal
	LED Output	Screw Terminal

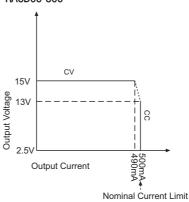
Note:

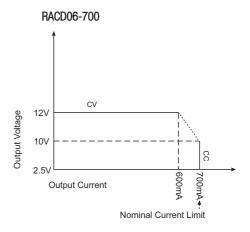
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Characteristics

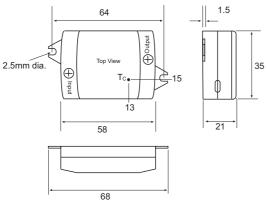
Constant Current (CC) and Constant Voltage (CV) Graph RACD06-500 RACD06-350







Package Style and Pinning



→ 1.5	
	35
21	•

2 Mounting screws are included

Tc = Case Temperature Measuring Point

VAC in (L)
VAC in (L)
(-)
VAC in (N)
Function
LED+
LED-

XX = +/-0.5mm XX.X = +/-0.25mm

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.