Features

LED DRIVER

- 30W Class II AC-DC LED Power Supply
- 500mA or 700mA Constant Current
- Drives 3 15 High brightness LEDs
- Universal AC Input
- Active Power Factor Correction >0.95
- Fused Input, Protected Output
- 3kVAC Isolation
- UL-8750 Certified
- Output Connector to avoid miswiring
- Low Cost
- Long 5 Year Warranty

Description

A compact 30W constant current switching power module suitable for driving up to 15 high power LEDs (Vf = 3.6V). The output current is fixed at 500mA or 700mA. Active power factor correction is standard.

This series features both screw terminal and socket output connections. The socket connecter avoids the possibility of miswiring and damaging the LED load if the LEDs are preassembled into a wiring harness or lamp fitting.

Selection Guide

Part Number	Input Voltage Range (VAC)	Input Current at full load (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD30-500	universal	390	10-56	500	15 x 2W
RACD30-700	universal	390	10-43	700	12 x 3W, 12+12 x 1W

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

Input Voltage Range	Standard	90-264VAC		
Rated Power	;	30 Watts max.		
Input Frequency Range		47-63 Hz		
Power Factor	Full Load, 115VAC/230VAC	0.9		
THD	Full Load, 115VAC	13% max.		
	Full Load, 230VAC	11% max.		
Open Circuit Voltage	500mA Version	58VDC		
(Zener Clamp)	700mA Version	48VDC		
Inrush Current (<2mS)	115VAC/230VAC	10A max.		
Input Current	230VAC, Full Load	390mA typ.		
Leakage Current	115VAC/240VAC - 60/50Hz	0.5mA typ.		
Input Fuse	Standard	T1A		
Output Current Accuracy	(combined Tolerance, load Regulation and Line Regulation)	±10%		
Minimum Load	Open Circuit Protected	3 LEDs		
Hold Up Time		18ms min.		
Operating Frequency	40	- 100 kHz typ.		
Efficiency at Full Load		85%		
RMS Isolation Voltage (input to	output) 3kV	AC / 1 minute		
Temperature Coefficient	±(±0.02%/°C typ.		
Overload Protection		120% typ.		
Short Circuit Protection	Continuous	Continuous Current Limit		
Output Overvoltage Protection		r Diode Clamp r Diode Clamp		
Overtemperature Protection	Shutdown, Automatic restart after	cooling down		
	I.	l an nort none		

continued on next page

LIGHTLINE

AC/DC-Converter with 5 year Warranty



30 Watt PFC Single Output









UL-8750 Certified EN 61347 Certified

RACD₃₀

Refer to Application Notes

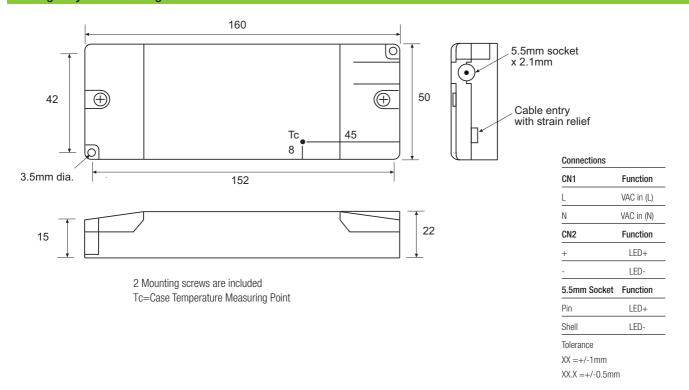


RACD30 Series

Specifications (typical at 25°C a	and after warm up time unless otherwise specified)				
Operating Temperature Range		Ambie	Ambient Temperature -2		
(free air convection)		Case Temp.	85°C max. (500m	A version: 90°C max.)	
Weight				200g	
Packing Quantity				1pc	
Storage Temperature Range				-40°C to +100°C	
Humidity				95% RH max.	
IP Rating				IP20, Indoor Use Only	
PCB Material			Plastic Resin with	Fibreglass (UL94V-0)	
Case Material				Plastic	
Designed to meet Standards	Electrical Lighting, EMC Emissions Limits for Harmonics Emissions EMC Compatibilty: Flicker and Voltage Variations Electrical Lighting: EMC Immunity Class II Power Supply Safety FCC			A1: 2007 + A2:2009 EN 61000-3-2:2006 EN 61000-3-3:2006 547:1995 + A1:2000 UL1310 FCC18A	
THD				<20%	
Certifications	LED Lighting Safety SEMKO CE Certification, General Safety SEMKO CE Certification, Safety of AC supplied Contro	I Gear for LED M	lodules E	UL8750 EN 61347-1: 2008 N 61347-2-13: 2006	
Design Lifetime	25°C ambient		>70 x 1	0 ³ hours in operation	
Connections	AC Input LED Output LED Output 5.5mm Socket with 2mm	n Pin (Suitable m	atching plug Switch	Screw terminal Screw Terminal craft S760 or similar)	
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.

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.