Features

LED DRIVER

- 30W Class II AC-DC LED Power Supply
- 500mA or 700mA Constant Current
- Drives 3 15 High brightness LEDs
- 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) 3k	VAC / 1 minute	
Temperature Coefficient	=	±0.02%/°C typ.	
Overload Protection		120% typ.	
Short Circuit Protection	Continuo	us Current Limit	
Output Overvoltage Protection		er Diode Clamp er Diode Clamp	
Overtemperature Protection	emperature Protection Shutdown, Automatic restart after cooling down		
Operating Temperature Range	Ambient Temperature -	20°C to +50°C	
(free air convection)	Case Temp. 85°C max. (500mA vers	,	
Storage Temperature Range	-4	0°C to +100°C	
Weight		200g	
Packing Quantity		1pcs	

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 and after warm up time unless otherwise specified)

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	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
THD		<20%
Certifications	LED Lighting Safety	UL8750
	SEMKO CE Certification, General Safety	EN 61347-1: 2008
	SEMKO CE Certification, Safety of AC supplied Control Gear for LED) Modules EN 61347-2-13: 2006
Design Lifetime	25°C ambient	>70 x 10 ³ hours in operation
Connections	AC Input	Screw terminal
	LED Output	Screw Terminal
	LED Output 5.5mm Socket with 2mm Pin (Suitable	matching plug Switchcraft S760 or similar)
Note:		

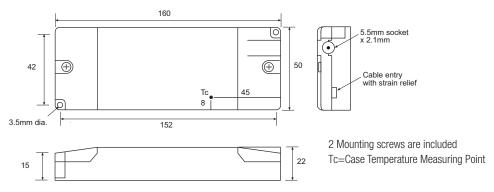
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Characteristic

Maximum Number of LED drivers per circuit breakers

Condition	Circuit Breaker	Circuit Breaker Current			
	Тур	10A	16A	20A	25A
115VAC, 10hm 90° phase angle	С	32	48	57	72
230VAC, 10hm	В	24	38	46	58
90° phase angle	С	38	62	74	92
277VAC, 10hm	В	28	44	53	66
90° phase angle	С	44	71	84	106

Package Style and Pinning



Connections				
CN1	Function			
L	VAC in (L)			
N	VAC in (N)			
CN2	Function			
+	LED+			
-	LED-			
5.5mm Socket	Function			
Pin	LED+			
Shell	LED-			
Tolerance $XX = +/-1mm$ $XX.X = +/-0.5mm$				

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