Features

LED DRIVER

- 12W Class II AC/DC LED Power Supply
- ENEC, UL, RCM and CB Certified
- Active Power Factor Corrected >0.95
- Fused Input, Protected Output
- 3kVAC Input/Output Isolation
- **Output Socket Connector**
- cUL/UL-8750 Certified
- Low Cost
- Long 5 Year Warranty

Description

A compact 12W constant current switching power module suitable for driving up to ten high power LEDs (Vf = 3.6V). The output current is fixed at 350mA, 500mA or 700mA. Active power factor correction is standard and the converters are UL8750 certified for use with LED assemblies. The driver module features both screw terminal and socket output connections. The socket connector avoids the possibility of miswiring and damaging the LED load if the LEDs are pre-assembled into a wiring harness or lamp fitting.

Selection Guide					
Part Number	Nominal Input Voltage (VAC)	Input Current at 230VAC (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD12-350	universal	200	3-36	350	10 x 1W
RACD12-500	universal	200	3-24	500	6 x 2W
RACD12-700	universal	200	3-17	700	4 x 2W, 8 x 1W

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

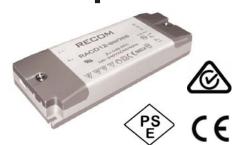
Input Voltage Range			90-264VAC
Rated Power			12 Watts max.
Input Frequency Range			47-63 Hz
Power Factor	Full Load,	115VAC/230VAC	0.95
THD	Full Load,	115VAC	7% max.
	Full Load,	230VAC	14% max.
Open Circuit Voltage	350mA Ve	rsion	39VDC
(Zener Clamp)	500mA Ve	rsion	26VDC
	700mA Ve	rsion	19VDC
Inrush Current (<2mS)	115VAC/2	30VAC	10A max.
Input Current	230VAC, F	ull Load	200mA max.
Leakage Current	115VAC/2	40VAC - 60/50Hz	0.5mA typ.
Input Fuse	Standard		T1A
Output Current Accuracy	(combined	Tolerance, Load Regulation and Li	ne Regulation) ±10%.
Minimum Load	Open Circu	uit Protected	1 LED
Hold Up Time			18ms min.
Operating Frequency			50-120kHz typ.
Efficiency at Full Load			78%
RMS Isolation Voltage (input	to output)		3kVAC / 1 minute
Temperature Coefficient			±0.02%/°C typ.
Overload Protection			120% typ.
Short Circuit Protection			Continuous Current Limit
Output Overvoltage Protection	on		Zener Diode Clamp
Overtemperature Protection		Shutdown, Auto	matic restart after cooling down
Operating Temperature Rang	ge	Ambient Temperature	-20°C to +50°C
(free air convection, according	ng to CE/UL)	Case Temperature	81°C max.
Operating Temperature Rang	ge	Ambient Temperature	-20°C to +50°C
(free air convection, accordin	ng to ENEC)	Case Temperature	85°C max.
Storage Temperature Range			-40°C to +100°C
Weight			100g
Packing Quantity			1pc
Humidity			95% RH max.
			continued on next page

LIGHTLINE

AC/DC-Converter with 5 year Warranty



12 Watt PFC **Single Output**









UL-8750 Certified **cUL-8750** Certified **ENEC 61347 Certified**

RACD12

Refer to Application Notes



RACD12 Series

>70 x 10³ hours in operation

5.5mm Socket with 2mm Pin (Suitable matching plug Switchcraft S760 or similar)*

Screw terminal

Screw Terminal

Specifications (typical at 25°C and after warm up time unless otherwise specified) **IP** Rating IP20, Indoor Use Only PCB Material Plastic Resin with Fibreglass (UL94V-0) Case Material 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 complies with UL1310 complies with FCC18A FCC THD <20% Certifications LED Lighting Safety UL8750 LED Lighting Safety (Canada) cUL8750 RCM (U21381) AS/NZS 61347.1:2002, IEC 61347-2-13 ENEC Certification, General Safety EN 61347-1: 2008 ENEC Certification, Safety of AC supplied Control Gear for LED Modules EN 61347-2-13: 2006 **PSE** J61347-1(H20), J61347-2-13(H21), J55015(H20)

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

Design Lifetime

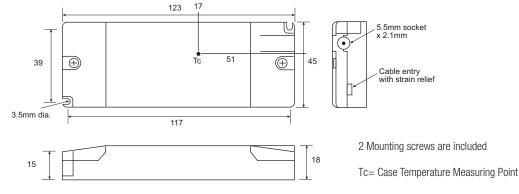
Connections

Note:

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	101	128	171	228
230VAC, 10hm	В	61	100	121	150
90° phase angle	С	121	164	221	291
277VAC, 10hm	В	70	115	139	172
90° phase angle	С	139	188	254	334

Package Style and Pinning



25°C ambient

AC Input

LED Output

LED Output

AC in (L) AC in (N) unction
unction
LED+
LED-
unction
LED+
LED-

The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

> Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com