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	NIO	Nominal	Input Current	Output	Output	Max
Number	NU	Input Voltage	at 230VAC	Voltage Range		#
		(VAC)	(mA)	(VDC)	(mA)	LEDs
RACD12-3	350	universal	200	3-36	350	10 x 1W
RACD12-5	500	universal	200	3-24	500	6 x 2W
RACD12-7	700	universal	200	G 3-15	700	4 x 2W, 8 x 1W

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

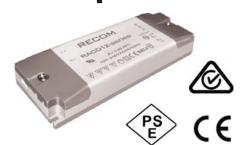
Input Voltage Range			90-264VAC
Rated Power			12 Watts max.
Input Frequency Range			47-63 Hz
Power Factor	Full Load,	115VAC/230VAC	0.95
THD	Full Load,	115VAC	7% max.
	Full Load, 2	230VAC	14% max.
Open Circuit Voltage	350mA Vei	rsion	42VDC
(Zener Clamp)	500mA Vei	rsion	28VDC
	700mA Vei	rsion	24VDC
Inrush Current (<2mS)	115VAC/23	30VAC	10A max.
Input Current	230VAC, F	ull Load	200mA max.
Leakage Current	115VAC/24	40VAC - 60/50Hz	0.5mA typ.
Input Fuse	Standard		T1A
Output Current Accuracy	(combined	Tolerance, Load Regulation an	d Line Regulation) ±10%.
Minimum Load	Open Circu	iit 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, A	Automatic 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, according	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 pag

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

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

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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	complies with UL1310
	FCC	complies with FCC18A
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 N	Modules EN 61347-2-13: 2006
	PSE J61	347-1(H20), J61347-2-13(H21), J55015(H20)
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 (Suital	ble matching plug Switchcraft S760 or similar)*
Note:		

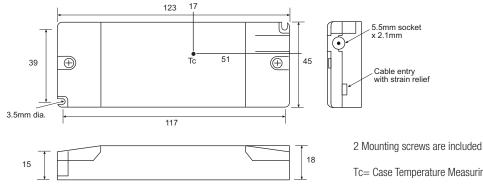
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

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

Package Style and Pinning



CN1	Function
L	VAC in (L)
N	VAC in (N)
CN2	Function
+	LED+
-	LED-
5.5mm Socket*	Function
Pin	LED+
Shell	LED-
Tolerenace	
TOTOTOTIACO	

Tc= Case Temperature Measuring Point XX = +/-0.5mm XX.X = +/-0.25mm

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