Features	• 12W Class II AC/DC LED Power Supply
	350mA or 700mA Constant Current Output
	Drives 1 - 10 High Brightness LEDs
LED	Universal AC Input
DRIVER	Active Power Factor Corrected >0.95
	Fused Input, Protected Output
	3kVAC Input/Output Isolation
	Output Socket Connector
	• UL-8750 Certified
	• Low Cost
	Long 5 Year Warranty

Description

RACD12

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 modules 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.

Nominal Input Voltage (VAC)	Input Current at 230VAC (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
universal	200	3-36	350	10 x 1W
universal	200	3-24	500	6 x 2W
universal	200	3-17	700	4 x 2W, 8 x 1W
	Input Voltage (VAC) universal universal	Input Voltage (VAC)at 230VAC (mA)universal200universal200	Input Voltage (VAC)at 230VAC (mA)Voltage Range (VDC)universal2003-36universal2003-24	Input Voltage (VAC)at 230VAC (mA)Voltage Range (VDC)Current (mA)universal2003-36350universal2003-24500

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

Input Voltage Range		90VAC-264VAC
Rated Power		12 Watts max.
Input Frequency Range		47-63 Hz
Power Factor	Full Load, 115VAC/230VAC	0.95
Output Voltage Range	350mA Version	3VDC (min) - 36VDC (Zener Clamp)
	500mA Version	3VDC (min) - 24VDC (Zener Clamp)
	700mA Version	3VDC (min) - 17VDC (Zener Clamp)
Inrush Current (<2mS)	115VAC/230VAC	10A max.
Input Current	230VAC, Full Load	200mA max.
Leakage Current	115VAC/240VAC - 60/50Hz	0.5mA typ.
Input Fuse	Standard	T1A
Output Current Accuracy	(combined Tolerance, Load Regula	ation and Line Regulation) $\pm 10\%$.
Minimum Load	Open Circuit Protected	1 LED
Output Ripple		150mA max.
Hold Up Time		18ms min.
Operating Frequency		50-120kHz typ.
Efficiency at Full Load		78%
RMS Isolation Voltage (inpu	t to output)	3kVAC / 1 minute
Temperature Coefficient		±0.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection		Continuous Current Limit
Output Overvoltage Protecti	ion	Zener Diode Clamp
		continued on next page

LIGHTLINE AC/DC-Converter

with 5 year Warranty



12 Watt PFC Single Output



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LIGHTLINE AC/DC-Converter

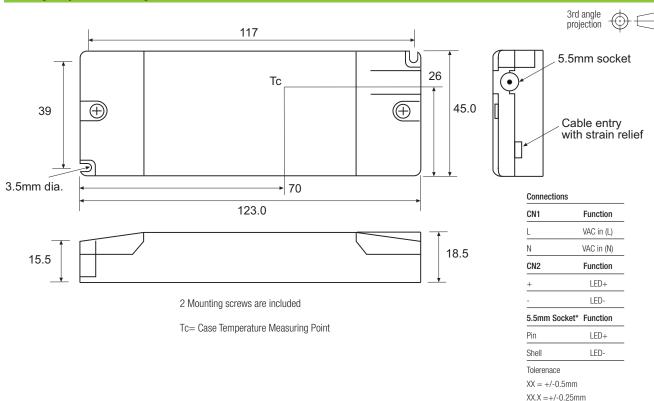
RACD12

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

Overtemperature Protection	Sh	Shutdown, Automatic restart after cooling down		
Operating Temperature Range	An	nbient Temperature	-20°C to +50°C	
(free air convection)	Са	ase Temperature	85°C max.	
Weight			100g	
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 wit	h 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 Compatibility: Flicker and Voltage Variations		EN 61000-3-3:2006	
	Electrical Lighting: EMC Immunity	EN 61	1547:1995 + 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 LE	D Modules	EN 61347-2-13: 2006	
Design Lifetime	25°C ambient	> 70 y	10 ³ hours in operation	
Design Lifetime		>70 X	· · ·	
Connections	AC Input		Screw terminal	
	LED Output		Screw Terminal	
	LED Output 5.5mm Socket with 2mm Pin (Suitable	e matching plug Switch	ncraft S760 or similar)*	

* Do not connect or disconnect the LED load while the converter is on. This may damage the LED or reduce its life.

Package Style and Pinning



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