Features	 20W Class II AC-DC LED Power Supply 350mA, 500mA, 700mA or 1050mA Outputs
	ENEC, UL, RCM and CB Certified
LED	Universal AC Input
DRIVER	Active Power Factor Correction >0.95
	Fused Input, Protected Output
	3kVAC Isolation
	• cUL/UL8750 Certified, CE Marked
	Output Connector to avoid miswiring
	• Low Cost
	Long 5 Year Warranty

Description

A compact 20W constant current switching power module suitable for driving high power LEDs (Vf = 3.6V). The output current is fixed at 350mA, 500mA, 700mA or 1050mA. 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)	Nom. Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD20-350	universal	260	6-56	350	15 x 1W
RACD20-500	universal	260	6-40	500	11 x 2W
RACD20-700	universal	260	6-29	700	8 x 2W, 8+8 x 1W
RACD20-1050	universal	260	5-17	1050	6 x 3W, 5+5 x 2W

Specifications (typical at 2	25°C and after warm up time unless otherwis	se specified)
Input Voltage Range	Standard	90-264VAC
Rated Power		20 Watts max.
Input Frequency Range		47-63 Hz
Power Factor	Full Load, 115VAC/230VAC	0.95
THD	Full Load, 115VAC/230VAC	12% max.
Open Circuit Voltage	350mA Version	57VDC
(Zener Clamp)	500mA Version	43VDC
	700mA Version	32VDC
	1050mA Version	19VDC
Inrush Current (<2mS)	115VAC/230VAC	10A max.
Input Current	230VAC, Full Load	260mA 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	2 LEDs
Hold Up Time		18ms min.
Operating Frequency		40 - 100 kHz typ.
Efficiency at Full Load		83%
RMS Isolation Voltage (input to	o output)	3kVAC / 1 minute
Temperature Coefficient		±0.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection		Continuous Current Limit
Output Overvoltage Protection	1	Zener Diode Clamp
		continued on next page





20 Watt PFC Single Output



cUL 8750 Certified* ENEC 61347 Certified

RACD20

* RACD20-700 and -1050 only has cUL

Refer to Application Notes

LIGHTLINE AC/DC-Converter

RACD20 **Series**

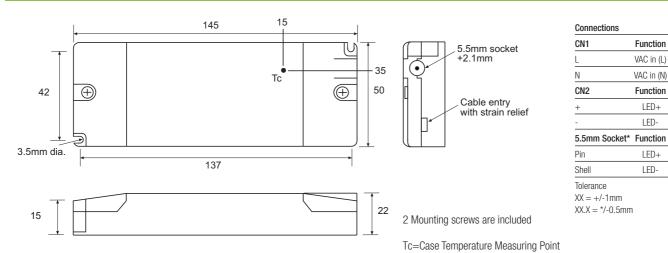
Overtemperature Protection	Sh	utdown, Automatic restart after cooling dowr
Operating Temperature Range	Ambient Temperature	-20°C to +50°C
(free air convection, according to CE/UL)	Case Temperature	78.6°C ma
Operating Temperature Range	Ambient Temperature	-20°C to +50°C
(free air convection, according to ENEC)	Case Temperature	85°C max
Weight		160
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	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 61547:1995 + A1:2000
	Class II Power Supply Safety	complies with UL1310
	FCC	complies with FCC18A
THD		<20%
Certifications	LED Lighting Safety (E340696)	UL8750
	LED Lighting Safety (Canada)	cUL8750 (RACD20-700 only)
	RCM (U21380)	AS/NZS 61347.1:2002, IEC 61347-2-13
	ENEC CE Certification, General Safety	EN 61347-1: 2008
	ENEC CE Certification, Safety of AC supplied Control Gear for LED	Modules EN 61347-2-13: 2006
Design Lifetime	25°C ambient	$>70 \text{ x} 10^3$ hours in operation
Connections	AC Input	Screw terminal
	LED Output	Screw Terminal
	•	e matching plug Switchcraft S760 or similar)

RACD20

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.

Function

VAC in (L)

VAC in (N)

Function

LED+

LED-

LED+

LED-