Features

LED DRIVER

- 20W Class II AC-DC LED Power Supply
- ENEC, UL, RCM and CB Certified
- 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 25°C and after warm up time unless otherwise specified)

Input Voltage Range	Standard 90-2		90-264VAC	
Rated Power			2	0 Watts max.
Input Frequency Range				47-63 Hz
Power Factor	Full Load,	Full Load, 115VAC/230VAC		0.95
THD	Full Load,	Full Load, 115VAC/230VAC		12% max.
Open Circuit Voltage	350mA Ve	350mA Version		57VDC
(Zener Clamp)	500mA Ve	rsion		43VDC
	700mA Ve	rsion		32VDC
	1050mA V	ersion ersion		19VDC
Inrush Current (<2mS)	115VAC/2	30VAC		10A max.
Input Current	230VAC, F	ull Load		260mA typ.
Leakage Current	115VAC/2	40VAC - 60/50Hz		0.5mA typ.
Input Fuse	Standard			T1A
Output Current Accuracy	<u> </u>	(combined Tolerance, load Regulation and Line Regulation)		±10%
Minimum Load	Open Circu	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 output)		3kV/	AC / 1 minute
Temperature Coefficient			±0	.02%/°C typ.
Overload Protection				120% typ.
Short Circuit Protection			Continuous	Current Limit
Output Overvoltage Protectio	n			Diode Clamp
Overtemperature Protection		Shutdown, A	utomatic restart after	cooling down
Operating Temperature Range Ambient Temperature		-20	°C to +50°C	
(free air convection, according		Case Temperature		78.6°C max.
Operating Temperature Range Ambient Temperature			-20	°C to +50°C
(free air convection, according	g to ENEC)	Case Temperature		85°C max.
Storage Temperature Range			-40°	C to +100°C
Weight				160g
Packing Quantity				1pc
			continued	d on next page

AC/DC-Converter

LIGHTLINE

with 5 year Warranty



20 Watt PFC Single **Output**









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

RACD₂₀

* RACD20-700 and -1050 only has cUL

Refer to Application Notes



RACD20 Series

pecifications (typical at 25°C and	d 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	complies with UL1310
	FCC	complies with FCC18A
THD		<20%
Certifications	LED Lighting Safety (E340696)	UL8750
	LED Lighting Safety (Canada)	cUL8750 (RACD20-700, RACD20-1050 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
	PSE	J61347-1(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	n Pin (Suitable matching plug Switchcraft S760 or similar)
Note:		

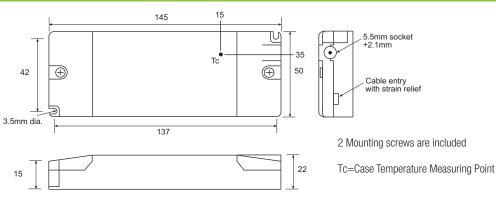
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

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	47	68	84	105
230VAC, 10hm	В	36	57	69	85
90° phase angle	С	57	87	109	134
277VAC, 10hm 90° phase angle	В	41	65	80	98
	С	65	99	125	154

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 $XX = +/-1$ mm $XX.X = */-0.5$ mn	n		

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