## **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 90-264		AC	
Rated Power			20 Watts m	ax.
Input Frequency Range			47-63	Hz
Power Factor	Full Load,	115VAC/230VAC	0.	.95
THD	Full Load,	115VAC/230VAC	12% m	ax.
Open Circuit Voltage	350mA Ve	rsion	57V	DC
(Zener Clamp)	500mA Ve	rsion	43V	DC
	700mA Ve	rsion	32V	DC
	1050mA \	ersion	19V	DC
Inrush Current (<2mS)	115VAC/2	30VAC	10A m	ax.
Input Current	230VAC, F	ull Load	260mA t	yp.
Leakage Current	115VAC/2	40VAC - 60/50Hz	0.5mA t	yp.
Input Fuse	Standard		T	1A
Output Current Accuracy	(combined	Tolerance, load Regulation and	Line Regulation) ±10	ე%
Minimum Load	Open Circ	uit Protected	2 LE	Ds
Hold Up Time			18ms m	nin.
Operating Frequency			40 - 100 kHz t	ур.
Efficiency at Full Load			83	3%
RMS Isolation Voltage (input	to output)		3kVAC / 1 mini	ute
Temperature Coefficient			±0.02%/°C t	ур.
Overload Protection			120% t	ур.
Short Circuit Protection			Continuous Current Li	mit
Output Overvoltage Protection	n		Zener Diode Clar	mp
Overtemperature Protection		Shutdown, Au	tomatic restart after cooling dov	
Operating Temperature Rang	е	Ambient Temperature	-20°C to +50°	°C
(free air convection, according	g to CE/UL)	Case Temperature	78.6°C ma	ax.
Operating Temperature Rang	е	Ambient Temperature	-20°C to +50°	°C
(free air convection, according	g to ENEC)	Case Temperature	85°C ma	ax.
Storage Temperature Range			-40°C to +100°	°C
Weight			160	0g
Packing Quantity			1	рс
			continued on next p	age

**LIGHTLINE** 

AC/DC-Converter with 5 year Warranty



# 20 Watt PFC Single Output









UL 8750 Certified cUL 8750 Certified\* ENEC 61347 Certified

# RACD<sub>20</sub>

\* RACD20-700 and -1050 only has cUL

**Refer to Application Notes** 



# RACD20 Series

<b>Specifications</b> (typical at 25°C and	I 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 <sup>3</sup> hours in operation
Connections	AC Input	Screw terminal
	LED Output	Screw Terminal
	LED Output 5.5mm Socket with 2mm	Pin (Suitable matching plug Switchcraft S760 or similar)
Note:		

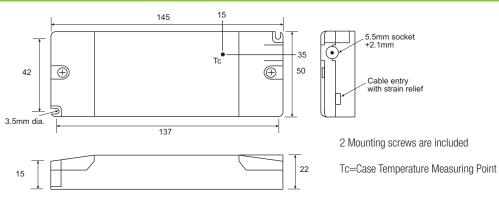
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

#### 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	В	41	65	80	98
90° phase angle	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 = +/-1mm			
XX.X = */-0.5mr	n		

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# AMEYA360 Components Supply Platform

## **Authorized Distribution Brand:**

























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