Features

LED DRIVER

- 20W AC-DC LED Power Supply
- 350mA or 700mA Constant Current Output
- Drives 1 15 High brightness LEDs
- Universal AC Input
- Power Factor Correction
- Fused Input, Protected Output
- 3kVAC Isolation
- UL-8750 Certified
- Output Connector to avoid miswiring
- Low Cost

Description

A compact 20W constant current switching power module suitable for driving up to 15 high power LEDs (Vf = 3.6V). The output current is fixed at 350mA or 700mA. 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 with a mating plug.

Selection Guide

Part Number	Input Voltage Range (VAC)	Input Current at full load (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD20-350	100-240VAC	260	6-56	350	15 x 1W
RACD20-700	100-240VAC	260	6-29	700	8 x 2W, 8+8 x 1W

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

Input Voltage Range	Standard 100'	VAC-240VAC
Rated Power	21	0 Watts max.
Input Frequency Range		47-63 Hz
Power Factor	Full Load, 115VAC/230VAC	0.95
Output Voltage Range	350mA Version	6 - 56VDC
	700mA Version	6 - 29VDC
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
Output Ripple		150mA max.
Hold Up Time		18ms min.
Operating Frequency	40 -	100 kHz typ.
Efficiency at Full Load		83%
RMS Isolation Voltage (input to	output) 3kVA	C / 1 minute
Temperature Coefficient	±0.	.02%/°C typ.
Overload Protection		120% typ.
Short Circuit Protection	Continuous	Current Limit
Output Overvoltage Protection	350mA Version 56V Zener	Diode Clamp
	700mA Version 29V Zener	Diode Clamp
Overtemperature Protection	Shutdown, Automatic restart after	cooling down
Operating Temperature Range	Ambient Temperature -20	°C to +50°C
(free air convection)	Case Temp. 85°C max. (350mA version	: 90°C max.)

continued on next page





20 Watt PFC Single Output



UL-8750 Certified



Please Read Application Notes



RACD20

$\textbf{Specifications} \ \text{cont.} \ \text{(typical at 25°C and after warm up time unless otherwise specified)}$

	140g
	1pc
	-40°C to +100°C
	95% RH max.
	IP20
	Plastic Resin with Fibreglass (UL94V-0)
	Plastic
Lamp Control Gear, General Safety	EN 61347-1:2001
Lamp Control Gear for LED Modules	EN 61347-2-13:2006
Electrical Lighting, EMC Emissions	EN55015:2001, FCC18A
Limits for Harmonics Emissions	EN 61000-3-2:2006
EMC Compatibilty: Flicker and Voltage Variations	EN 61000-3-3:2001
Electrical Lighting: EMC Immunity	EN 61547:1995 + A1: 2000
Class II Power Supply Safety	UL1310
LED Lighting Safety	UL8750
25°C ambient	>70 x 10 ³ hours in operation
AC Input	Screw terminal
LED Output	Screw Terminal
LED Output	5.5mm Socket with 2mm Pin
	Lamp Control Gear for LED Modules Electrical Lighting, EMC Emissions Limits for Harmonics Emissions EMC Compatibilty: Flicker and Voltage Variations Electrical Lighting: EMC Immunity Class II Power Supply Safety LED Lighting Safety 25°C ambient AC Input LED Output

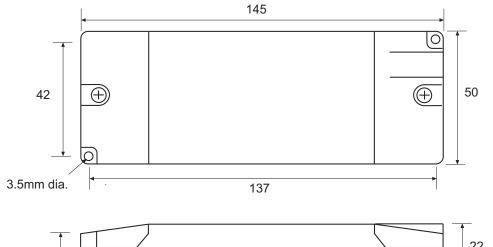
Package Style and Pinning



5.5mm socket

Cable entry





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21	Mounti	na cere	MIC OLD	included

with	with strain relie	
Connection CN1	ons Function	
L	VAC in (L)	
N	VAC in (N)	
CN2	Function	
+	I FD+	

	LED-		
5.5mm Socket	Function		
Pin	LED+		
Shell	I FD-		