Features

LED Driver

- 3W Class II AC-DC LED Power Supply
- 350mA to 700mA CC/CV Output
- ENEC, UL, RCM and CB Certified
 - Universal Input Voltage Range
- Fused Input and Protected Output
- **3kVAC Isolation**
- **IP66**
- Low Cost
- **3 Year Warranty**

Description

A compact universal AC input 3W constant current switching power module suitable for driving 1 - 6 high power LEDs. The output (dual constant voltage / constant current mode) current limit is fixed at 350mA, 500mA or 700mA. At lower output currents, the output is constant voltage. Connections are via 118mm long flying leads.

Selection Guide)					
Part CV Mode		Mode	CC Mode		Efficiency typ.	
Number	(VDC)	(mA)	(VDC)	(mA)	(%)	
RACD03-350	15	0-350	2.5-15	350	72	
RACD03-500	11	0-500	2.5-11	500	71	
RACD03-700	6	0-700	2.5-6	700	62	

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

Input Voltage Range 90-264VAC or 1			
Rated Power		3W nom. / 5.5W max.	
Input Frequency Range		47-63 Hz	
Output Voltage Range		2.5 - 15VDC max.	
Inrush Current (<2mS)	230VAC	10A max.	
Leakage Current	240VAC/50Hz	0.2mA typ.	
Input Fuse	Built-in	T1A	
Input Current		130mA max.	
Output Current Accuracy (combined Toleran	ce, Load Regulation and Line Re	gulation) ±10%	
Minimum Load	Open Circuit Protected	1 LED	
Output Ripple		0.1Ap-p max.	
Hold Up Time		18ms min.	
Operating Frequency		66kHz typ.	
AC RMS Isolation Voltage	I/P to O/P	3.75kV / 1 minute	
Temperature Coefficient		±0.02%/°C typ.	
Overload Protection		120% typ.	
Short Circuit Protection		Continuous Current Limit	
Output Overvoltage Protection		Zener Diode Clamp	
Overtemperature Protection	Shutdown, Automatic restart after cooling dow		
Operating Temperature Range	Ambient Temperature	-20°C to +50°C	
(free air convection, according to CE/UL)	Case Temperature	75°C max.	
Operating Temperature Range	Ambient Temperature	-20°C to +40°C	
(free air convection, according to ENEC)	Case Temperature	75°C max.	
Storage Temperature Range		-25°C to +85°C	
Humidity		95% RH max.	
IP Rating		IP66	
PCB Material Plastic Resin with Fibreglass (UL94V-0			
Case Material Plast			
Weight			
		continued on next page	

LIGHTLINE AC/DC-Converter with 3 year Warranty



3 Watt Single Output







UL-8750 Certified EN-61347 Certified **ENEC** Certified



LIGHTLINE AC/DC-Converter

RACD03 Series

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

Packing Quantity		10pc
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 Variat	tions EN 61000-3-3:2006
	Electrical Lighting: EMC Immunity	EN 61547:1995 + A1:2000
	Class II Power Supply Safety	UL1310
	FCC	FCC18A
Certifications	LED Lighting Safety (E340696)	UL8750
	RCM (U21376)	AS/NZS 61347.1:2002, IEC 61347-2-13
	ENEC General Safety	EN 61347-1: 2008
	ENEC Safety of AC supplied Control Gear for	LED Modules EN 61347-2-13: 2006
Design Lifetime	25°C ambient	>20 x 10 ³ hours in operation
Connections	AC Input Live Brown Wire, AWG18, 172mm + 5-7mm stripped an	
	AC Input Neutral Blue Wire, AWG18, 172mm + 5-7mm stripped and	
	LED +	Red Wire, AWG18, 128mm + 5-7mm stripped and tinned
	LED -	Black Wire, AWG18, 128mm + 5-7mm stripped and tinned

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.

Characteristics

Constant Current (CC) and Constant Voltage (CV) Graph



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	221	247	337	430
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230VAC, 10hm	В	80	157	200	254
90° phase angle	С	265	317	437	550

Package Style and Pinning



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