Features	 20W Class II AC-DC LED Power Supply 2x Independent Constant Current Outputs
	or Single High Current Output (Jumper selectable)
LED	• 1-10V or Rheostat Dimmable (15%~100%)
DRIVER	3kVAC Isolation
	 Active Power Factor Correction >0.95
	 Fused Input, Protected Outputs
	CE Marked
	Long 5 Year Warranty

Description

A compact 20W constant current switching power module suitable for driving either two independent strings of LEDs or a single string high power LEDs (mode selction is via a jumper under the output cover plate). When used in dual output mode, the two outputs are independently regulated and can be used with asymmetric LED loads. The output current can be dimmed using either an external 150kOhm rheostat or via a 1-10V external voltage. Active power factor correction is standard. Connections are via screw terminals and the AC input feature loop-through connections to allow daisy-chaining of the converters.

Selection Guide					
Part Number	Input Voltage Range (Nominal VAC)	Input Current at full load (mA)	Output Voltage Range (VDC)	Output Current (mA)	Max # LEDs
RACD20-350D	230VAC	260	2x (3-34)	2x (50~350)	2x (10 x 1W)
(700mA single output mo	ode)		3-34	100~700	10 x 2W
RACD20-350D-US	110VAC	510	2x (3-34)	2x (50~350)	2x (10 x 1W)
(700mA single output mo	ode)		3-34	100~700	10 x 2W

opeenications (typical a	t 25°C and after warm up time unless otherwise	specified)
Input Voltage Range	230VAC	200-264VA0
	110VAC	90-130VA0
Rated Power		20 Watts max
Input Frequency Range		47-63 H
Power Factor	Full Load, 115VAC/230VAC	0.95
Output Voltage Range	350mA Dual Output Mode	3-34VDC + 3-34VDC
	700mA Single Output Mode	3-34VD0
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	115VAC/230VAC	T2A/T1A
Output Current Accuracy	(combined Tolerance, load Regulation and Line Re	egulation) ±10%
Minimum Load	Open Circuit Protected	1 LEC
Output Ripple		150mA max
Hold Up Time		18ms min
Operating Frequency		40 - 100 kHz typ
Efficiency at Full Load	230VAC	>80%
RMS Isolation Voltage (input	to output)	3kVAC / 1 minute
Temperature Coefficient		±0.02%/°C typ
Overload Protection		120% typ
Short Circuit Protection		Continuous Current Lim
		continued on next pag

LIGHTLINE AC/DC-Converter with 5 year Warranty



20 Watt PFC Single/Dual Dimmable



EN 61347 Compliant



LIGHTLINE AC/DC-Converter

RACD20-D Series

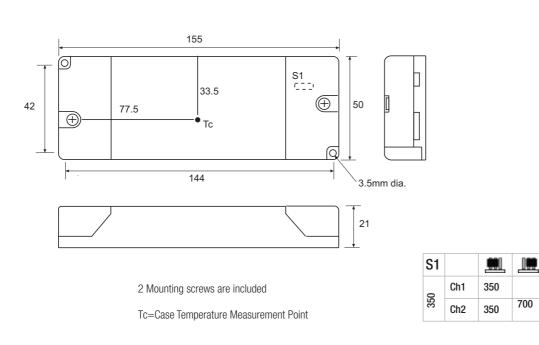
Specifications (typical at 25°C and after warm up time unless otherwise specified)

Specifications (typical at 25 0 a	and after warm up time unless ou	ierwise specified)		
Dimming Control	Rheostat (15%~100%)	0-150k0hm	External Voltage (15%-100%)	1-10VDC
Overtemperature Protection			Shutdown, Automatic restart	after cooling down
Operating Temperature Range			Ambient Temperature	-20°C to +40°C
(free air convection)			Case	Temp. 85°C max.
Weight				140g
Packing Quantity				1pc
Storage Temperature Range				-40°C to +100°C
Humidity				95% RH max.
IP Rating			IP2	0, Indoor Use Only
PCB Material			Plastic Resin with Fibreglass (UL94V-0	
Case Material				Plastic
Designed to meet Standards	Electrical Lighting, EMC E	missions	EN55015:2006 + A1	: 2007 + A2:2009
	Limits for Harmonics Emi	ssions	EN	161000-3-2:2006
	EMC Compatibility: Flicker	r and Voltage Variations	EN	161000-3-3:2006
	Electrical Lighting: EMC I	mmunity	EN 61547	7:1995 + A1:2000
	Class II Power Supply Sat	fety		UL1310
	FCC			FCC18A
THD				<20%
Certifications	LED Lighting Safety		designe	ed to meet UL8750
	Certification, General Saf	ety	designed to meet I	EN 61347-1: 2008
Design Lifetime	25°C ambient		>70 x 10 ³	hours in operation
Connections	AC Input			Screw terminal
	AC Output (loop through)			Screw terminal
	LED Outputs			Screw Terminal

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



Connections	
CN1	Function
L (loopthrough)	VAC out (L)
N (loopthrough)	VAC out (N)
CN2	Function
L	VAC in (L)
N	VAC in (N)
S1	Function
1+2	Dual Mode
2+3	Single Mode
CN3	Function
-	common
+	1-10V or 150k
CN4	Function
Ch1 -	LED+
Ch1 +	LED-
CN5	Function
Ch2 +	LED+
Ch2 -	LED-
Tolerance XX = +/-1mm XX.X = +/-0.5m	ım

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.