

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

LED Driver

- 4W AC-DC Class II LED Power Supply
- 350mA to 700mA Constant Current Outputs
- Fully Protected (OLP, SCP, OCP, OTP)
- low Standby Power, ErP conform
- IP65 (suitable for dry and damp locations)
- low cost
- CE, CB, ENEC, CSA and UL8750 certified.
- Wired connections for independent or built-in use



These constant current LED drivers have been designed for cost-sensitive applications. The SELV outputs are suitable for built-in power-supply LED luminaires. Their low profile design allows them to be invisibly built into furniture, discreetly mounted under shelves or integrated in space-restricted applications such as coving lighting, strip lighting or troffer lighting systems. The power supplies are short circuit and overload protected and come with a full 3-year warranty.

Selection Guide	9					
Part Number	nom. Input Voltage [VAC]	Input Current [mA]	Output Voltage Range [VDC]	Output Current [mA]	Efficiency typ. [%]	Output Power max. [W]
RACD04-350	115/230	100	3-12	350	77	4.2
RACD04-500	115/230	100	3-8	500	75	4
RACD04-700	115/230	100	3-6	700	72	4.2

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.

Specifications (measured @ ta= 25°C, 240VAC and rated load)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range		90VAC	230VAC	264VAC
Inrush Current				10A
	350mA			16VDC
Open Circuit Voltage	500mA			12VDC
	700mA			9VDC
Start-up Time				500ms
Input Frequency Range		47Hz		63Hz
No Load Power Consumption				0.5W
Power Factor	full load, 230VAC			0.40
Internal Operating Frequency	full load		64kHz	
Output Dinale Ourrent (1)	350mA			80mAp-p
Output Ripple Current (1)	500mA; 700mA			90mAp-p
Notes:				
Note1: Me	asured at 20MHz BW using ().1μF & 47μF par	allel capacitor.	

REGULATIONS				
Parameter	Condition	Value		
Output Current Accuracy		±5% max.		
Line Regulation		5% max.		
Load Regulation		5% max.		

PROTECTION		
Parameter	Condition	Value
Input Overcurrent Protection	internal	0.22Ω fusible resistor
Open Circuit Protection (OCP)		auto recovery after fault condition is removed
	continued on next page	



RACD04

4 Watt Constant Current Single Output















UL8750 Certified CSA C22.2 No. 250.13 Certified IEC62384 Certified EN55015 Compliant CB Report

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RACD04

Series

Specifications (measured @ ta= 25°C, 240VAC and rated load)

Over Load Protection (OLP)		auto recovery after fault condition is removed
Over Voltage Protection (OVP)		auto recovery after fault condition is removed
Over Temperature Protection (OTP)	110°C Tcase	auto recovery after fault condition is removed
Isolation Voltage	I/P to O/P	3.75kVAC / 1 minute
Isolation Resistance		100ΜΩ

Maximum loading of automatic circuit breakers

@ 115VAC, 10hm, 90° phase angle and max. load

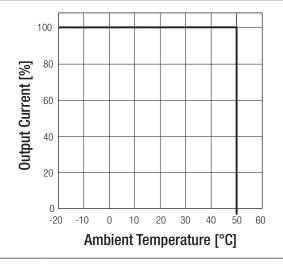
Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
С	54	118	148	184

@ 230VAC, 10hm, 90° phase angle and max. load

Circuit Breaker	Circuit Breaker Current			
Тур	10A	16A	20A	25A
В	17	28	35	44
С	27	59	74	92

ENVIRONMENTAL			
Parameter	Condition	Value	
Operating Temperature Range		-20°C to +50°C, Ambient	
Maximum Case Temperature		+79°C	
Operating Altitude		2000m	
Operating Humidity		5% to 85% RH, non condensing	
IP Rating		IP65	
Pollution Degree		PD2	
Design Lifetime		30 x 10 ³ hours	





SAFETY AND CERTIFICATIONS			
Certificate Type	Report Number	Standard	
ETL Standard for LED Equipment for use in Lighting Products	160428123GZU-001	UL8750, 2nd Edition, 2015	
LED Equipment for Lighting Applications	100420123020-001	CSA C22.2 No. 250.13, 2014	
Lamp Controlgear General Requirments for Safety (CB Scheme)	307649 + 307650	IEC61347-1, 2nd Edition, 2012 EN61347-1, 2nd Edition, 2013	
Lamp Controlgear Particular Requirements (CB Scheme)		IEC/EN61347-2-13, 2nd Edition, 2014	
D.C. or A.C. Controlgears for LED Performance Requirements (ENEC)	307649-1 + 307650-1	IEC/EN62384, 1st Edition, 2009	
RoHS 2.1	LCS1606201548R	RoHS-2011/65/EU + AM-2015/863	
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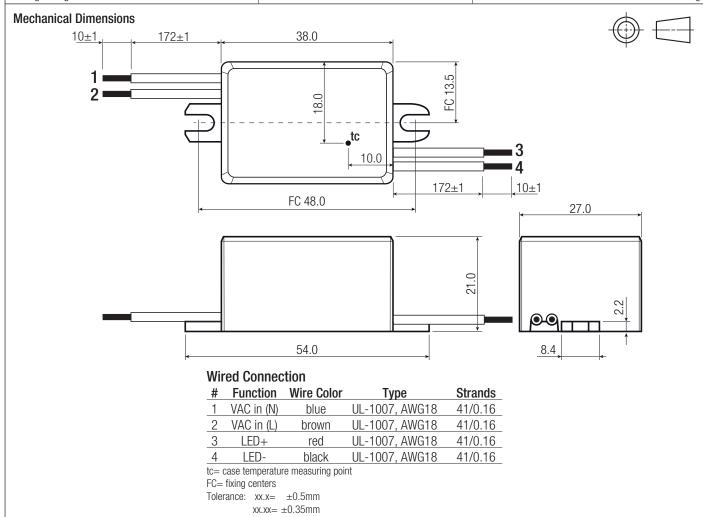
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EMI Compliance		Standard / Criterion
Equipment for general Lighting Purpose EMC Immunity Requirements		EN61547, 2009
Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	307650	EN55015
Assessment of lighting equipment related to human exposure to electromagnetic fields		EN62493, 2015
ESD Electrostatic discharge immunity test	±8kV Air Discharge, ±4kV Contact Discharge	EN61000-4-2, 2009, Criteria B
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	EN61000-4-3, 2010, Criteria A
Fast Transient and Burst Immunity	±0.5kV (DC Output) ±1kV (AC Input)	EN61000-4-4, 2012, Criteria B
Surge Immunity	±0.5kV (AC Input)	EN61000-4-5, 2014, Criteria C
Immunity to conducted disturbances, induced by radio-frequency fields	3V	EN61000-4-6, 2014, Criteria A
Voltage Dips and Interuptions	100% reduction, 10ms 30% reduction, 200ms	EN61000-4-11, 2014, Criteria B EN61000-4-11, 2014, Criteria C
Limits of Harmonic Current Emissions		EN61000-3-2, Class C, 2014
Voltage Fluctuations and Flicker in Public Low-Voltage Systems <=16A per phase		EN61000-3-3, 2013

DIMENSION and PHYSICAL CHARACTERISTICS				
Parameter	Туре	Value		
	Case	Plastic (UL94 V-2)		
Material	Potting	Silicone (UL94 V-0)		
Package Dimension (LxWxH)		38.0 x 27.0 x 21.0mm		
Package Weight		40g		

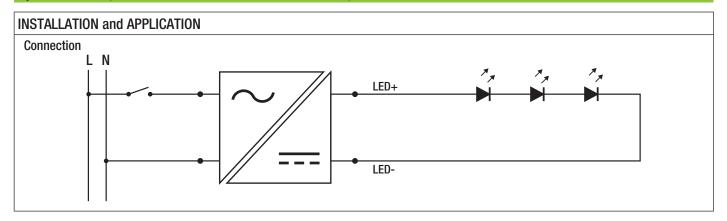




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Series

Specifications (measured @ ta= 25°C, 240VAC and rated load)



PACKAGING INFORMATION			
Parameter	Туре	Value	
Packaging Dimension (LxWxH)	Operation and Device	290.0 x 86.0 x 76.0mm	
Packaging Quantity	Cardboard Box	10pcs	
Storage Temperature Range		-20°C to +70°C	
Storage Humidity		5% - 85% RH	