Features LED DRIVER

2/Input Voltage Range

- High Output Voltage
- Universal AC Input
- Constant Current Operation
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Compact Size
- Digital PWM and Analogue Voltage Dimming

Selection Guide	е				
Part Number	Nominal Voltage (VAC)	Rated Voltage (V)	Output Voltage Range (VDC)	Rated Current (mA)	Efficiency typ. (%)
RACD100-7004 RACD13000	100-277 100-277 100-277	142	EN 30 82 ED	700	P 91

NEW DESIGNS

Specifications (measured at 240V AC and 25°C ambient temperature)

Z/IIIput voitage harige		90-3	03 VAC 01 127-430VDC
Input Frequency Range			47-63Hz
Power Factor	Full Load, 115VAC		>0.98
	Full Load, 230VAC		>0.94
	70% Load		>0.90
DC Dimming	Open = 100%		DC 1-10V
PWM Dimming	Open = 100%		Duty 10% - 100%
	Freq.		500Hz - 3000Hz
	Voltage		Hi=10V, Low=0V
THD	Full Load, 115VAC		8% max.
	Full Load, 230VAC		15% max.
	Full Load, 277VAC		17% max.
AC Current	115VAC		1.2A max.
	230VAC		0.6A max.
Input/Output Isolation			3.75kVAC / 1minute
Input/Case Isolation			1.8kVAC / 1minute
Output/Case Isolation			0.5kVAC / 1minute
Leakage Current	230VAC		<0.75mA
Inrush Current	230VAC		50A
(Class C Circuit Breaker is recor	mmended)		
Voltage Tolerance			-1% to 5%
Current Tolerance			±5%
Start-up Time (@ Full Load)	230VAC		2s
Ripple & Noise	142V Version		1000mV max.
(@20MHz bandwidth)	71V Version		500mV max.
Over Voltage	110 - 140% Rated Vol	Itage	Shutdown Mode
Short Circuit Protection			Hiccup Mode
Over Temperature Protection			100°C ±10°C
Operation Temperature	without derating	-30°	°C to +55°C (see graph)
Operation Humidity		20%-9	0% RH Non-Condensing
Storage Temperature			-40°C to +80°C
Storage Humidity			10%-95% RH
Vibration		10-500Hz, 2G, 6	60 Min. along X, Y and Z
IP Rating			IP67
Safety Standards	UL/cUL LED Lighting S	Safety	UL8750
	CE LVD Directive, Safe	ty	EN61347-2-13
	CB F	Report: 1103631 001	IEC61347-2-13
			continued on next page

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90-305 VAC or 127-430VDC

LIGHTLINE

AC/DC-Converter with 5 year Warranty



100 Watt Single Output



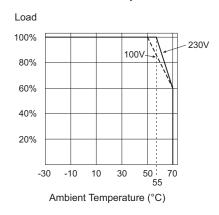


UL 8750 Certified EN 61347 Certified

RACD100-A

Derating-Graph

(Ambient Temperature)



Refer to Application Notes



RACD100-A Series

Specifications (measured at 240V AC and 25°C ambient temperature)

EMC Standards EMC Compatibility

Harmonic Current

EMC Immunity

EN55015 FCC, Part 15 EN61000-3-2 Class C

EN61000-3-3 EN61000-4-2, 3, 4, 5, 6, 11

EN61547

Dimension 177*57*37mm Weight

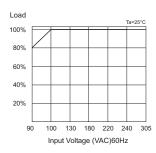
750g

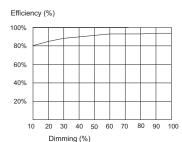
 70×10^3 hours max. Design Lifetime **MTBF** using MIL-HDBK-217F (25°C) 200 x 103 hours min.

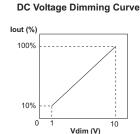
Note:

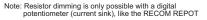
All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.

Derating Curves

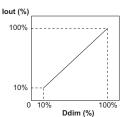








PWM Dimming Curve

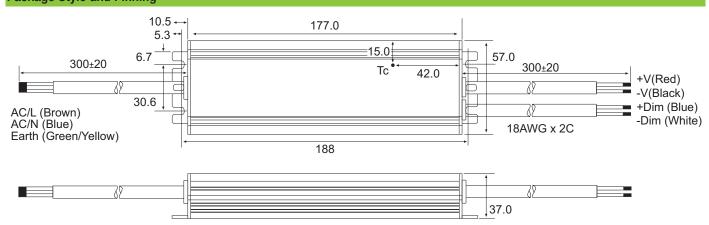


Pule: Hi = 10V, Low = 0V Frequency: 500 - 3KHz

Maximum Number of LED drivers per circuit breakers

Condition	Circuit Breaker	Circuit Breaker Current		ent	
	Тур	10A	16A	20A	25A
115VAC, 10hm 90° phase angle	С	7	12	14	18
230VAC, 10hm	В	6	10	12	14
90° phase angle	С	13	22	24	31
277VAC, 10hm	В	7	11	14	17
90° phase angle	С	15	25	29	36

Package Style and Pinning



The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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RACD100-1400A RACD100-700A