

Features

LED DRIVER

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

Selection Guide

Part	Nominal Voltage (VAC)	Rated Voltage (V)	Constant Current Range (V)	Rated Number Current (mA)	Efficiency (%)
RACD100-700A	100-277	142	100-142	700	91
RACD100-1400A	100-277	71	50-71	1400	91

Specifications

Input Voltage Range	90-305 VAC or 127-430VDC	
Input Frequency Range	47-63Hz	
Power Factor	Full Load, 115VAC	>0.98
	Full Load, 230VAC	>0.94
	70% Load	>0.90
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	
Input/Case Isolation	1.8kVAC	
Output/Case Isolation	0.5kVAC	
Leakage Current	230VAC	<0.75mA
Inrush Current	230VAC	50A
(Class C Circuit Breaker is recommended)		
Voltage Tolerance	-1% to 5%	
Current Tolerance	±5%	
Set up Time	230VAC	2s
(@ Full Load)		
Ripple & Noise	142V Version	1000mV max.
(@20MHz bandwidth)	71V Version	500mV max.
Over Voltage	110 - 140% Rated Voltage	Shutdown Mode
Short Circuit Protection	Hiccup Mode	
Over Temperature Protection	100°C ±10°C	
Operation Temperature	(Refer to Output Load Derating Curve)	-30°C to +55°C
Operation Humidity	20%-90% RH Non-Condensing	
Storage Temperature	-40°C to +80°C	
Storage Humidity	10%-95% RH	
Vibration	2G 10min/1Cycle, Period for 60 min	10-500Hz
IP Rating	IP67	
Safety Standards	UL/cUL LED Lighting Safety (Pending)	UL8750
	CE LVD Directive, Safety	EN61347-2-13
EMC Standards	EMC Compatibility	EN55015
		FCC, Part 15
	Harmonic Current	EN61000-3-2 Class C
		EN61000-3-3
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 11
		EN61547
Dimension	177*57*37mm	
Weight	750g	
MTBF	using MIL-HDBK-217F (25°C)	200 x 10 ³ hours

LIGHTLINE
AC/DC-Converter
with 5 year Warranty

RECOM

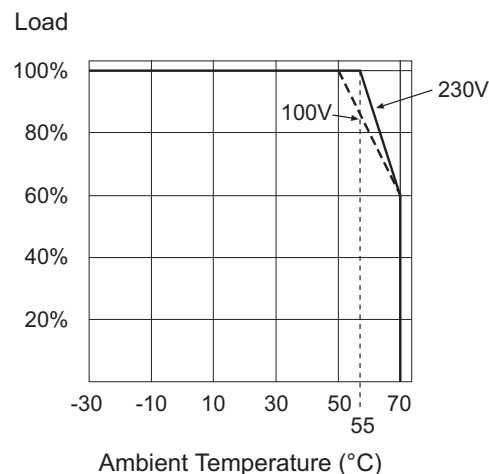
**100 Watt
Single
Output**



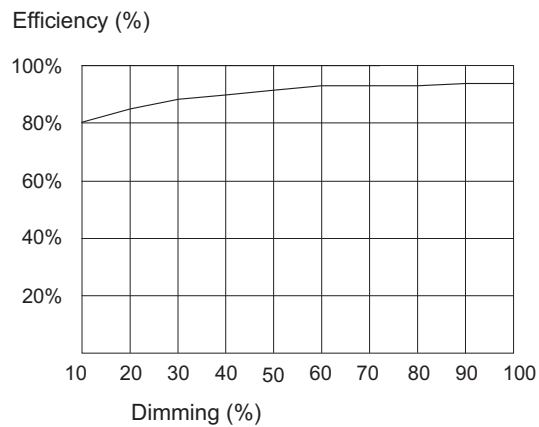
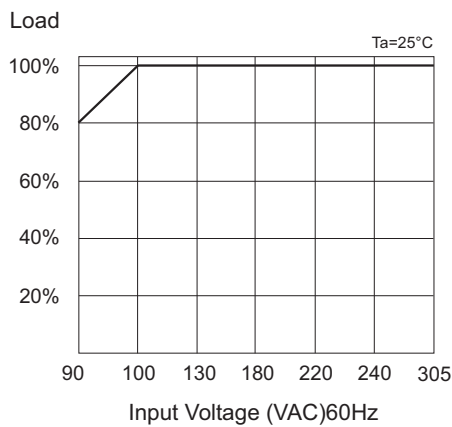
**UL 8750 Pending
EN 61347 Certified**

RACD100-A

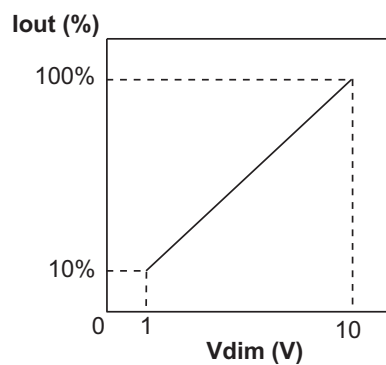
Derating Graph



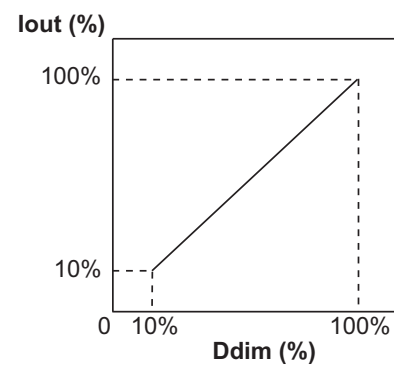
Derating Curve



DC Voltage Dimming Curve



PWM Dimming Curve



Note: If need to control two or more drivers, please use a potentiometer

Pulse: $H_i = 10\text{V}$, $L_o = 0\text{V}$
Frequency: 500 - 3KHz

RACD100-A

Package Style and Pinning

