

# 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

**LIGHTLINE**  
AC/DC-Converter  
with 5 year Warranty

**RECOM**

**100 Watt  
Single  
Output**



**UL 8750 Pending  
EN 61347 Certified**

**RACD100**  
**(High Voltage)**

### Selection Guide

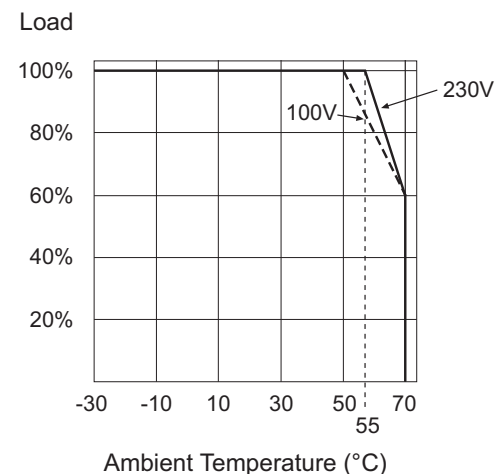
Part	Nominal Voltage (VAC)	Rated Voltage (V)	Constant Current Range (V)	Rated Number Current (mA)	Efficiency (%)
RACD100-700*	100-277	142	100-142	700	91
RACD100-1400*	100-277	71	50-71	1400	91

\*add suffix „A“ for PWM/DC 0-10V Dimming

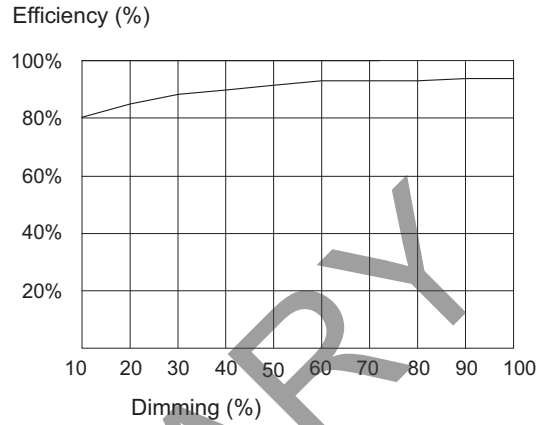
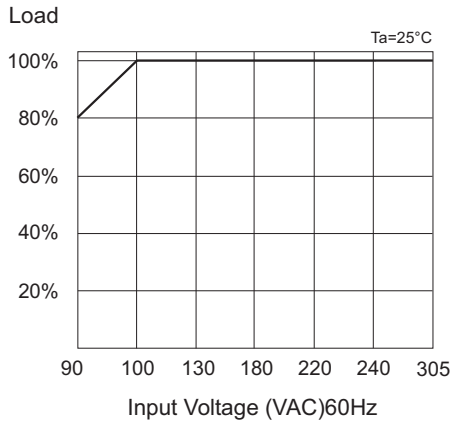
### Specifications

Input Voltage Range	90-305 VAC or 127-430VDC	
Input Frequency Range	47-63Hz.	
Power Factor	Full Load, 120VAC	>0.98
	Full Load, 240VAC	>0.94
	70% Load	>0.90
AC Current	120VAC	1.2A max.
	240VAC	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	240VAC	50A
Voltage Tolerance	-1% to 5%	
Current Tolerance	±5%	
Set up Time (@ Full Load)	240VAC	2s
Ripple & Noise (@20MHz bandwidth)	142V Version	1000mV max.
	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
	Harmonic Current	FCC, Part 15 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 <sup>3</sup> hours

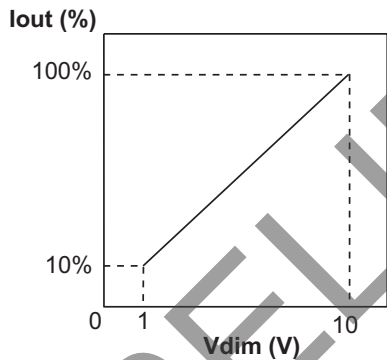
### Derating Graph



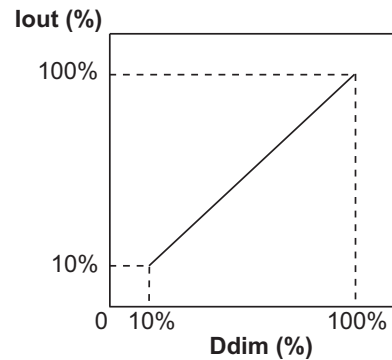
**Derating Curve**



**DC Voltage Dimming Curve**



**PWM Dimming Curve**



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

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

**Package Style and Pinning**

