

Features

LED DRIVER

- Universal AC Input
- Constant Voltage / Constant Current Operation
- CE and ENEC Certified Class 1 LED Driver
- Active Power Factor Correction
- IP67 Design for Indoor and Outdoor Use
- Cooling by Free Air Convection

Selection Guide

Part	CV Mode		CC Mode		Efficiency (230VAC) (typ.)
	Constant Voltage (V)	Current Range (A)	DC Voltage Range (V)	Constant Current (A)	
RACD150-12-ENECE	12	0-11	9-12	11	88%
RACD150-24-ENECE	24	0-6.3	14-24	6.3	90%
RACD150-36-ENECE	36	0-4.2	26-36	4.2	90%
RACD150-48-ENECE	48	0-3.2	34-48	3.2	90%

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	>0.95
	Full Load, 277VAC	>0.94
THD	Full Load, 115VAC	8% max.
AC Current	115VAC	2A max.
	230VAC	1A max.
Input / Output Isolation	3.75kVAC	
Input / Case Isolation	1.8kVAC	
Output / Case Isolation	0.5kVAC	
Leakage Current	230VAC	<0.5mA
Current Tolerance	±5%	
Voltage Tolerance	-1% to 5%	
Set up Time	115VAC	1.0s
(@ Full Load)	230VAC / 277VAC	0.8s
Ripple & Noise	48V Version	200mV max.
	others	150mV max.
(with 20MHz bandwidth & 47µF Elco + 0.1µF MLCC)		
Over Current Protection	95%-105% rated current	Auto-Recovery
Short Circuit Protection	Hiccup Mode	
Over Voltage Protection	12V	12.5V typ.
Latch Mode	24V	24.5V typ.
(Power off to recover)	36V	36.5V typ.
	48V	48.5V typ.
Over Temperature Protection	Tcase 95°C ±10°C	
Operation Temperature	(Refer to Output Load Derating Curve)	-30°C to +70°C
Operation Humidity	20%-90% RH Non-Condensing	
Storage Temperature	-40°C to +80°C	
Storage Humidity	10%-90% RH	
Vibration	2G 10min/1Cycle, Period for 60 min	10-500Hz
IP Rating	IP67	
Safety Standards	RCM (U21457)	AS/NZS 61347.1:2002, IEC 61347-2-13
	ENEC General Safety	EN 61347-1: 2008
	Safety of AC supplied Control Gear for LED Modules	EN 61347-2-13: 2006
EMC Standards	EMC Compatibility	EN55015
		FCC, Part 15
	Harmonic Current	EN61000-3-2 Class C (≥75% load)
		EN61000-3-3
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 11

continued on next page

LIGHTLINE
AC/DC-Converter
with 5 Year Warranty

RECOM

**150 Watt
Single
Output**



**EN 61347 Certified
EN 62384 Certified**

RACD150-ENECE

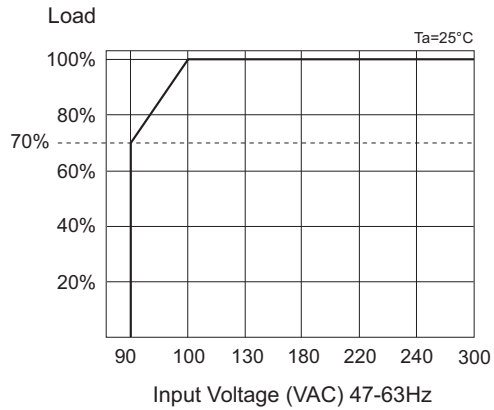
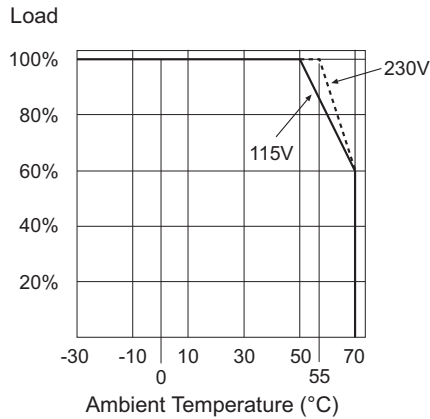
Note:

The use of a circuit breaker with C-characteristic is recommended.

Specifications

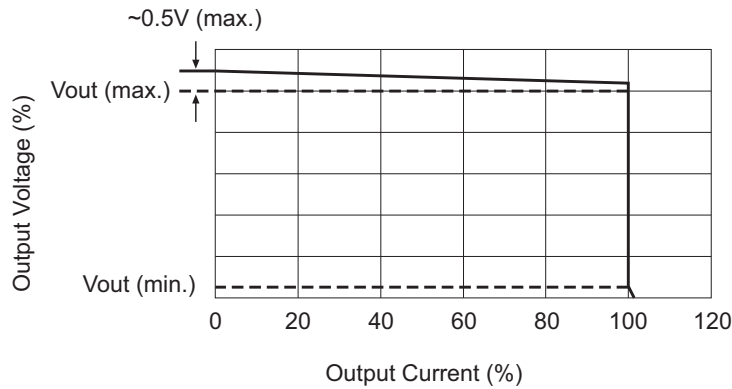
Dimension		199.2*68*39mm
Weight		1080g
MTBF	using MIL-HDBK-217F (25°C)	200 x 10 ³ hours
Design Lifetime		70 x 10 ³ hours

Derating Curve

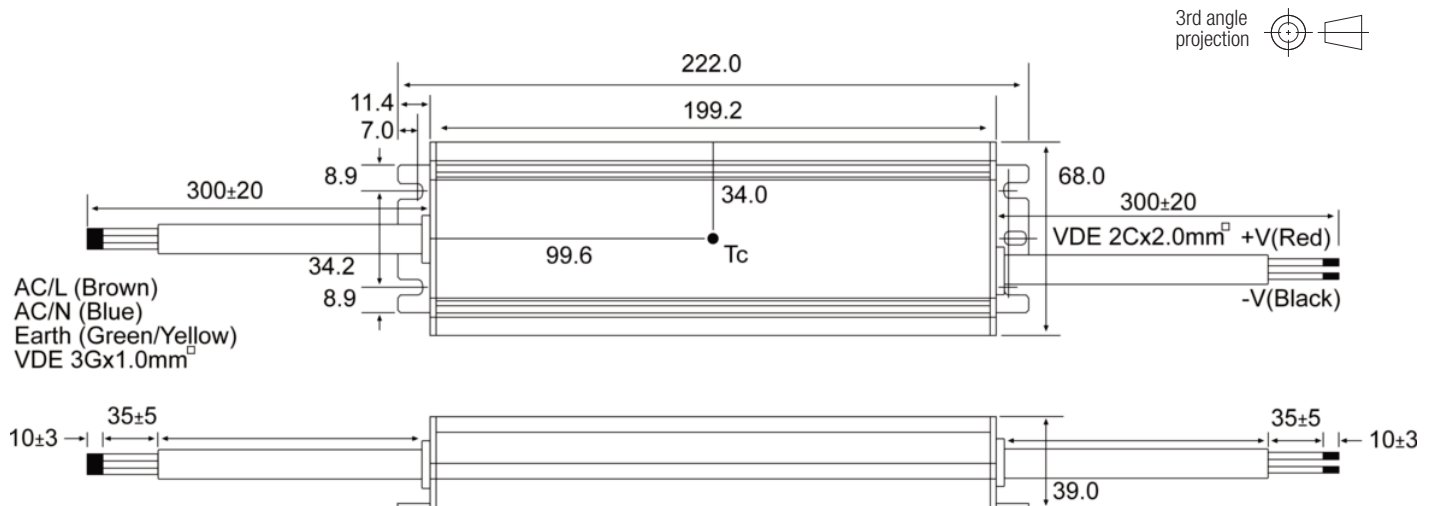


Characteristics

Constant Voltage / Constant Current Curve



Package Style and Pinning



RACD150