

Features

LED DRIVER

- 20W Class II AC-DC LED Power Supply
- 350mA, 500mA, 700mA, 1050mA Output
- Universal AC Input (90-305VAC)
- Active Power Factor Correction
- Isolation Voltage 3.75kVAC
- Efficiency to 80%
- EN and UL Certified
- Low Cost

LIGHTLINE
AC/DC-Converter
with 5 year Warranty

RECOM

Selection Guide

Part Number	Input Range (VAC)	Output Current (mA)	Output Voltage (VDC)	Efficiency (typ.)
RACD20-350/277	90 - 305	350	28 - 57	80%
RACD20-500/277	90 - 305	500	20 - 40	80%
RACD20-700/277	90 - 305	700	14 - 29	80%
RACD20-1050/277	90 - 305	1050	18.8 - 19	80%

Specifications

Input Voltage Range		90-305 VAC
Output Power Range	other types	10 Watts min., 20 Watts max.
	1050mA Version	12 Watts min., 20 Watts max.
Input Frequency Range		50/60 Hz typ.
Power Factor	Full Load, 115VAC	>0.90
	Full Load, 230VAC	>0.90
	Full Load, 277VAC	>0.85
Open Circuit Voltage	350mA Version	59 VDC
	500mA Version	44 VDC
	700mA Version	33 VDC
	1050mA Version	23 VDC
No Load Power Consumption		2 Watts max.
Input / Output Isolation		3750 VAC / 1 minute
Operating Frequency		50/60 Hz
Overload Protection		105% ~ 110%
Weight		195g
Dimension Drawing		80 x 74 x 26.5mm
THD		<20%
Temperature Coefficient		according to standards
Operating Temperature		-20°C to +50°C
Max. Case Temperature (Tc)		90°C
Acoustic Noise		30dB (10cm)
IP Rating		IP66
Certifications	Safety	EN61547-1 EN61347-2-13 UL1310 Class B, UL8750
	Harmonics	EN61000-3-2 Class C
	EMC	EN55015 Class B FCC Part 18 Class B
Design Lifetime		50 x 10 ³ hours

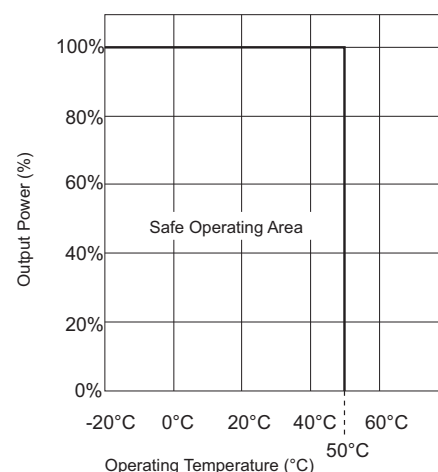
20 Watt PFC Single Output



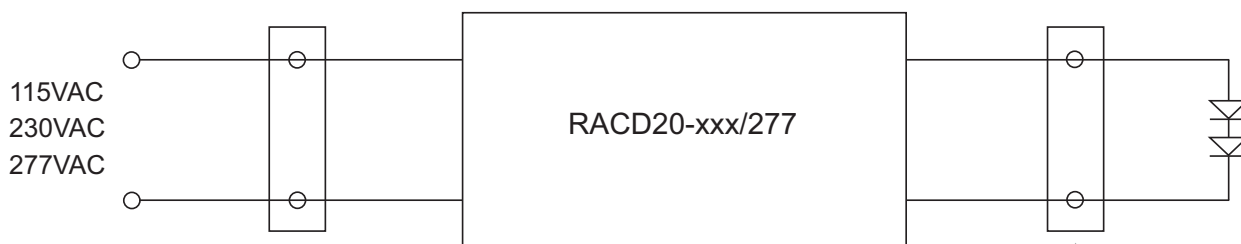
UL 8750 Certified
EN 61347 Certified

RACD20/277

Derating-Graph (Ambient Temperature)



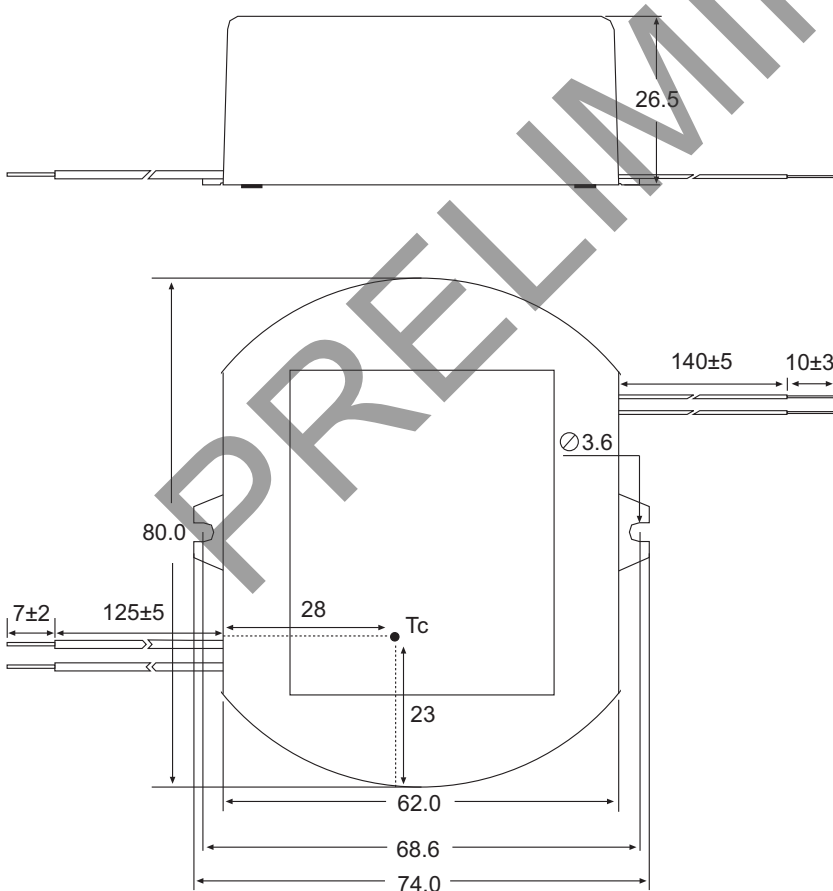
Standard Application Circuit



Notes:

- LED power supply is internally fused. No external fuse is required.
- Do not connect or disconnect LED load while the converter is on. This may damage the LED or reduce its life.
- Class 2 Power supply

Standard Package Style & Pinning



3rd angle projection

Wire Connections

Wire	Function
Brown	VAC in (L)
Blue	VAC in (N)
Red	LED+
Black	LED-

Tolerance

XX = +1mm/ -0.5mm

XX.X = +/- 0.25mm