| Features - 20W Class II AC-DC LED Power Supply <br>  - $350 \mathrm{~mA}, 500 \mathrm{~mA}, 700 \mathrm{~mA}, 1050 \mathrm{~mA}$ Output <br> LED DRIVER Universal AC Input (90-305VAC) <br>  - Active Power Factor Correction <br>  - Isolation Voltage 3.75kVAC <br>  - Efficiency to $80 \%$ <br>  - LNEC, UL, RCM and CB Certified <br>  - Low Cost | - 20W Class II AC-DC LED Power Supply <br> - 350mA, 500mA, $700 \mathrm{~mA}, 1050 \mathrm{~mA}$ Output <br> - Universal AC Input (90-305VAC) <br> - Active Power Factor Correction <br> - Isolation Voltage 3.75kVAC <br> - Efficiency to 80\% <br> - ENEC, UL, RCM and CB Certified <br> - Low Cost |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Selection Guide |  |  |  |  |
| Part Number | Input Range (VAC) | Output Current (mA) | Output <br> Voltage <br> (VDC) | Efficiency <br> (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 | 10.8-19 | 80\% |


| Specifications |  |  |
| :---: | :---: | :---: |
| Input Voltage Range |  | 90-305VAC or 130-430VDC |
| Output Power Range | other types | 10 Watts min., 20 Watts max. |
|  | 1050 mA 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 | $>0.85$ |
| THD | Full Load, 115VAC/230VAC/277VAC | 14\% max. |
| Open Circuit Voltage | 350 mA Version | 59 VDC |
|  | 500 mA Version | 44 VDC |
|  | 700 mA Version | 33 VDC |
|  | 1050mA Version | 23 VDC |
| Input / Output Isolation |  | 3750 VAC / 1 minute |
| Operating Frequency |  | $50 / 60 \mathrm{~Hz}$ |
| Overload Protection |  | 105\% ~ 110\% |
| Weight |  | 195g |
| Dimension Drawing |  | $80 \times 74 \times 26.5 \mathrm{~mm}$ |
| THD |  | <20\% |
| Temperature Coefficient |  | according to standards |
| Operating Temperature Range | Ambient Temperature | $-20^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ |
| (free air convection, according to CE/UL) | Case Temperature | $80^{\circ} \mathrm{C}$ max. |
| Operating Temperature Range | Ambient Temperature | $-20^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ |
| (free air convection, according to ENEC) | Case Temperature | $85^{\circ} \mathrm{C}$ max. |
| Storage Temperature |  | $-40^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ |
| Acoustic Noise |  | 30 dB (10cm) |
| IP Rating |  | IP66 |

## Certifications

ENEC CE Certification, General Safety
EN61347-2-13
LED Lighting Safety (E340696)
UL1310 Class B, UL8750
RCM (21378) AS/NZS 61347.1:2002, IEC 61347-2-13
Harmonics
EN61000-3-2 Class C
EMC

PSE
J61347-1(H2O), J61347-2-13(H21), J55015(H20)

## LIGHTLINE

 AC/DC-Converter with 5 year Warranty
## RECDM

## 20 Watt PFC Single Output



RACD20/277

## Derating-Graph

(Ambient Temperature)


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.

## 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


## Characteristic

## Maximum Number of LED drivers per circuit breakers

| Condition | Circuit Breaker | Circuit Breaker Current |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Typ | 10 A | 16 A | 20 A | 25 A |  |
| $115 \mathrm{VAC}, 10 \mathrm{hm}$ <br> $90^{\circ}$ phase angle | C | 47 | 68 | 84 | 105 |  |
|  |  |  |  |  |  |  |
| $230 \mathrm{VAC}, 10 \mathrm{hm}$ <br> $90^{\circ}$ phase angle | B | 36 | 57 | 69 | 85 |  |
|  | C | 57 | 87 | 109 | 134 |  |
| 277 VAC, 10hm <br> $90^{\circ}$ phase angle | B | 41 | 65 | 80 | 98 |  |
|  | C | 65 | 99 | 125 | 154 |  |

## Standard Package Style \& Pinning



