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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation, and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


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## Features

LED
DRIVER

- 30W Class II AC-DC LED Power Supply
- 500 mA or 700 mA Constant Current
- Drives 3-15 High brightness LEDs
- Active Power Factor Correction >0.95
- Fused Input, Protected Output
- 3kVAC Isolation
- UL-8750 Certified
- Output Connector to avoid miswiring
- Low Cost
- Long 5 Year Warranty


## Description

A compact 30W constant current switching power module suitable for driving up to 15 high power LEDs (Vf $=3.6 \mathrm{~V}$ ). The output current is fixed at 500 mA or 700 mA . Active power factor correction is standard.
This series features both screw terminal and socket output connections. The socket connecter avoids the possibility of miswiring and damaging the LED load if the LEDs are preassembled into a wiring harness or lamp fitting.

| Selection Guide |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Part <br> Number | Input Voltage <br> Range <br> (VAC) | Input Current <br> at full load <br> $(\mathrm{mA})$ | Ooltage Range <br> (VDC) |  | Output <br> Current <br> $(\mathrm{mA})$ |

Specifications (typical at $25^{\circ} \mathrm{C}$ and after warm up time unless otherwise specified )

| Input Voltage Range | Standard | 90-264VAC |
| :---: | :---: | :---: |
| Rated Power |  | 30 Watts max. |
| Input Frequency Range |  | $47-63 \mathrm{~Hz}$ |
| Power Factor | Full Load, 115VAC/230VAC | 0.9 |
| THD | Full Load, 115VAC | 13\% max. |
|  | Full Load, 230VAC | 11\% max. |
| Open Circuit Voltage | 500 mA Version | 58 VDC |
| (Zener Clamp) | 700mA Version | 48VDC |
| Inrush Current (<2mS) | 115VAC/230VAC | 10 Amax . |
| Input Current | 230VAC, Full Load | 390mA typ. |
| Leakage Current | 115VAC/240VAC - 60/50Hz | 0.5 mA typ . |
| Input Fuse | Standard | T1A |
| Output Current Accuracy | (combined Tolerance, load Regulation and Line Regulation) | ) $\pm 10 \%$ |
| Minimum Load | Open Circuit Protected | 3 LEDs |
| Hold Up Time |  | $18 \mathrm{~ms} \mathrm{min}$. |
| Operating Frequency |  | 40-100 kHz typ. |
| Efficiency at Full Load |  | 85\% |
| RMS Isolation Voltage (input to | output) 3 | $3 \mathrm{kVAC} / 1$ minute |
| Temperature Coefficient |  | $\pm 0.02 \% /{ }^{\circ} \mathrm{C}$ typ. |
| Overload Protection |  | 120\% typ. |
| Short Circuit Protection | Continuo | uous Current Limit |
| Output Overvoltage Protection | $500 \mathrm{~mA} \mathrm{Version} \mathrm{56V} \mathrm{Zen}$ | ener Diode Clamp |
|  | $700 \mathrm{~mA} \mathrm{Version} \mathrm{43V} \mathrm{Zen}$ | ener Diode Clamp |


| Overtemperature Protection | Shutdown, Automatic restart after cooling down |  |
| :--- | :--- | ---: |
| Operating Temperature Range | Ambient Temperature |  |

LIGHTLINE AC/DC-Converter with 5 year Warranty

## 30 Watt PFC Single Output



UL-8750 Certified EN 61347 Certified

RACD30

Specifications (typical at $25^{\circ} \mathrm{C}$ and after warm up time unless otherwise specified)


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.

## Characteristic

Maximum Number of LED drivers per circuit breakers

| Condition | Circuit Breaker |  | cuit Br | er Curr |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Typ | 10A | 16A | 20A | 25A |
| 115VAC, 10hm $90^{\circ}$ phase angle | C | 32 | 48 | 57 | 72 |
|  |  |  |  |  |  |
| 230VAC, 10hm <br> $90^{\circ}$ phase angle | B | 24 | 38 | 46 | 58 |
|  | C | 38 | 62 | 74 | 92 |
| 277VAC, 10hm <br> $90^{\circ}$ phase angle | B | 28 | 44 | 53 | 66 |
|  | C | 44 | 71 | 84 | 106 |

Package Style and Pinning


