



SLD-2012

SOLLATEK 20W SINGLE OUTPUT LED POWER SUPPLY

Description

Sollatek's SLD-20 range of LED power supplies is designed specifically for harsh environments providing reliability and immunity from extremes in mains voltages, surges/spikes/lightning, temperatures and ingress.

The SLD-2012 is a 20W AC/DC LED driver, operating at an input voltage range of 99 - 264VAC and rated at 12VDC providing the optimal design flexibility for LED lighting system.

Uniquely the SLD range has extremely low Inrush Current (~1A - TBC) compared to competition where figures of close to 100A have been observed.

With an efficient and robust enclosure design, the driver has both IP67 and IP66 ingress protection level allowing this driver to be fitted in both indoor and outdoor applications.

Features

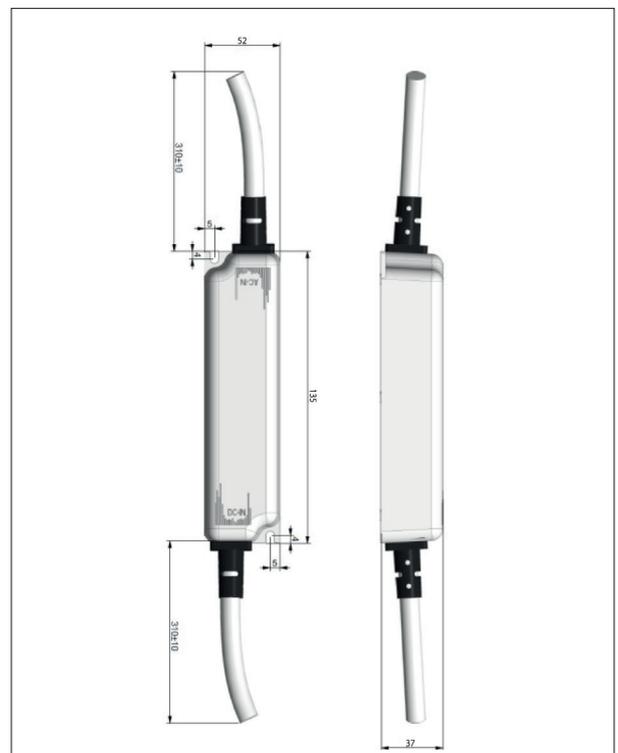
- Universal AC input 99V - 264V
- Fully isolated electronics
- Ultra-low inrush current
- Electronics fully isolated from case
- Protections
 - short circuit
 - over current
 - over voltage
 - over temperature
- 100% full load burn-in test
- Built in active PFC function
- IP66 & IP67 Compliance
- Small and compact size
- Designed for very high reliability
- Suitable for dry / damp locations
- Class II power unit, no FG

Features:

99 - 264V	12V	19.2W	<1A	-30 - +60°C	IP66	IP67	Circuit Breaker	Over Voltage Protection	Over Current Protection	Over Temp. Protection
Vin	VDC	Power	Inrush	Op. Temp.						



Mechanical Drawing



Specifications

Input

Voltage Range	99 - 264VAC
Frequency Range	47 - 63Hz
Power Factor	> 0.9 at 75% - 100% load
THD	< 20% when output load > 50% (at 230V _{in})
Efficiency (typical)	80%
AC Current	0.26A/99VAC 0.11A/230VAC
Inrush Current	< 1A at 264VAC
Max no of PSUs on 16A CB	150 units
Leakage Current	0.5mA/240VAC

Output

DC Voltage	12V
Rated Current	1.6A
Current Range	0 - 1.6A
Rated Power	19.2W
Ripple & Noise (max)	2.5V _{p-p}
Voltage Tolerance	± 10%
Line Regulation	± 2%
Load Regulation	± 10%
Setup Time	<500ms/230VAC

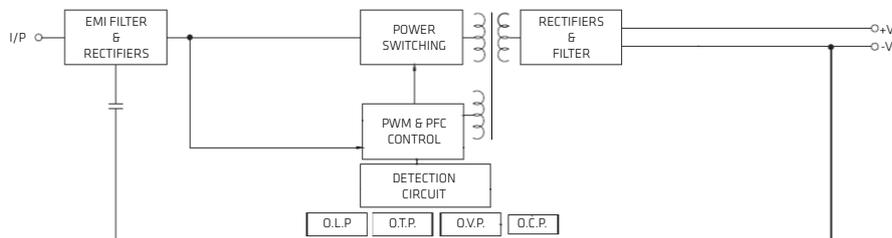
Protection / Environment

Over Current & Protection Type	95 - 120% Constant current limiting, auto recovery after fault correction
Short Circuit	Hiccup mode; auto recovery after fault correction
Over Voltage & Protection Type	13 - 14V Clamping by voltage feedback
Over Temperature	Controller provides temperature control. Auto recovery when temperature goes down
Ingress Protection	IP66 / IP67
Working Temperature	-30°C to +60°C (+70°C at 75% load)
Working Humidity	5-95% RH Operating, non-condensing
Storage Temperature Humidity	-40°C to +80°C
Temperature Co-efficient	± 0.06%/°C (0-50°C)
Vibration	10 ~ 500Hz, 2G 10min/1cycle, period for 60min each along X, Y, Z axes

Safety, EMC & Others

Safety Standards	Complies to IEC/EN 61347-1, IEC/EN 61347-2-13, (2nd Phase- UL8750, CSA C22.2 No. 250.0-08)
Withstand Voltage (Input-Output)	3.75kVAC
Isolation Resistance (Input-Output)	100M Ohms / 500VDC / 25°C / 70%RH
EMC Emission	Complies to EN55015, EN61000-3-3, EN61000-3-2 Class C (≥75% load)
EMC Immunity	Complies to EN61000-4-2,3,4,5,6,8,11;EN61547
MTBF	>2,000khrs (MIL-HDBK-217F (25°C))

Block Diagram



For more information on Sollatek's Refrigeration Control Range refer to the FreoRange Catalogue, or visit www.sollatek.com

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ISO9001: 2008 accredited company

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