Scharfer

Professional LED power supplies

Brief Information

Powermax™ Technology Inside

45W

Waterproof Power Supply (C.V.)

Model SCH-45-12 / SCH-45-24
Input 185-250V AC / 200-250V AC
Output 12VDC 3.75A 45W / 24VDC 1.87A 45W



Model: **SCH-45-12**
SCH-45-24

Size: 190*29*21mm

Product Features

- Compact size, easy for installation
- High transfer efficiency
- Wide input range
- Stable constant voltage output
- IP67, both indoor & outdoor use suitable
- 100% full loading, 100% burn-in tested
- Overload/short circuit protection

MAIN ELECTRICAL DATA

AC Input

Input Voltage	185-250V / 200-250V
Input Frequency	50/60Hz
Efficiency (Typ.)	85%
Input Current	230V: 0.42A max.
Inrush Current	40A
Leakage Current	1mA/230VAC

DC Output

Output Voltage	12V	24V
Rated Current	3.75A	1.87A
Rated Power	45W	45W
Ripple & Noise (Max.)	<100mVp-p	<100mVp-p
Setup, Rise Time	1500ms/230VAC	1500ms/230VAC
Line Regulation	1%	1%
Load Regulation	1%	1%

Service Environment

Working Temp.	-30°C~50°C
Working Humidity	20~95%RH
Storage Temp.	-40°C~80°C
Storage Humidity	15~95%RH

Protection

Overload	Yes, active when loading is over 110~120% Output Voltage drops if overloaded
Short Circuit	Yes, hiccup mode, recovers automatically after fault condition is removed

Safety

Safety Standard	EN 61347-2-13
Withstand Voltage	I/P-O/P: 3750VAC/1min/<5mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC /25°C / 70%RH

Packaging Information

Product Dimension	190*29*21mm
Products Net Weight	235G
PCS/Carton(QTY)	50 PCS
Master Carton Size	39*22*22cm
G. Weight/ Carton	13KG

Installation Tips:
- Please identify the power supply's input and output before installation.
- Ensure correct output + & - wire connection.
  Power on after wire connection is done.
- To avoid voltage drop and loading capacity wasting on the output extension wire, please install the power supply to the loading as near as possible, if must use long extension wires, thicker wires and less loading wattage is required.
- The power supply to be installed at good ventilation and cooling environment.

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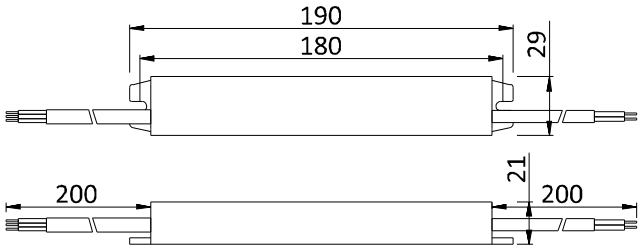
Input: 3x0.75mm² wire, Brown L, Blue N
200mm length

Output: 2x0.75mm² wire, Red +, Black -
200mm length

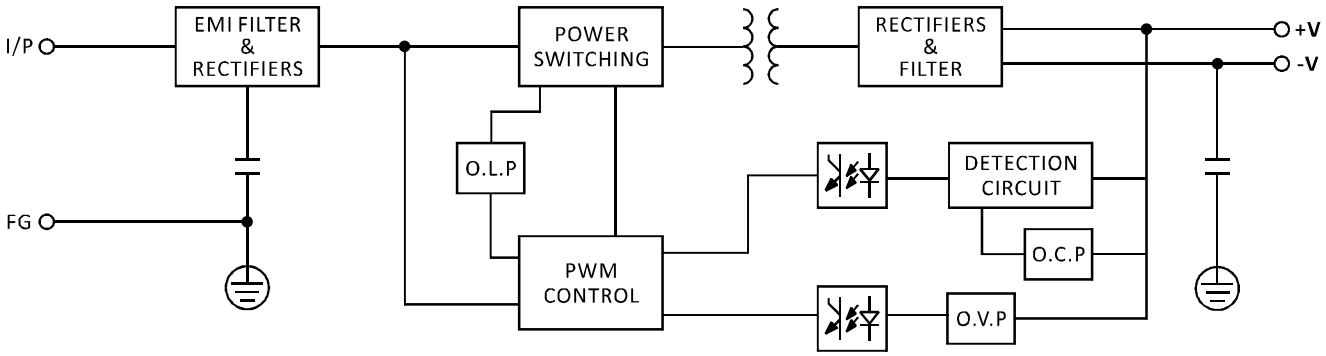
Housing: Aluminium

Physical Drawing

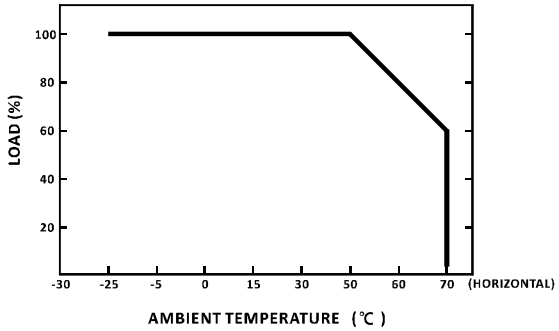
Unit: mm



Block Diagram



Derating Curve



Static Characteristics

