



**EN:** This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).

# Scharfer

## Professional LED power supplies



Model: **SCH-18-12**    Size: 162\*28\*20mm  
**SCH-18-24**



### Brief Information

## 18W

### Waterproof Power Supply (C.V.)

Model SCH-18-12 / SCH-18-24

Input 185-250V AC

Output 12VDC 1.5A 18W / 24VDC 0.75A 18W

### 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                    |
| Input Frequency   | 50/60Hz                     |
| Efficiency (Typ.) | 83%                         |
| Input Current     | 230V: 0.19A <sup>max.</sup> |
| Inrush Current    | 40A                         |
| Leakage Current   | 1mA/230VAC                  |

#### DC Output

|                       |               |               |
|-----------------------|---------------|---------------|
| Output Voltage        | 12V           | 24V           |
| Rated Current         | 1.5A          | 0.75A         |
| Rated Power           | 18W           | 18W           |
| 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 | 10~95%RH   |

### Protection

|               |                                                                                 |
|---------------|---------------------------------------------------------------------------------|
| Overload      | Yes, active when loading is over 110~120%<br>Output Voltage drops if overloaded |
| Short Circuit | Yes, hiccup mode, recovers automatically<br>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<br>/25°C / 70%RH |

### Packaging Information

|                    |             |
|--------------------|-------------|
| Product Dimension  | 162*28*20mm |
| Product Net Weight | 135G        |
| PCS/Carton(QTY)    | 100 PCS     |
| Master Carton Size | 26*22*23cm  |
| G. Weight/ Carton  | 16KG        |

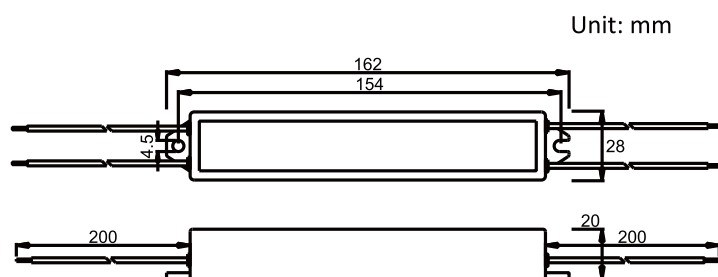
#### Installation Tips:

- Please identify the power supply 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.

# Scharfer

Professional LED power supplies

## Physical Drawing



### Brief Information

## 18W

**Waterproof Power Supply (C.V.)**

Model SCH-18-12 / SCH-18-24

Input 185-250V AC

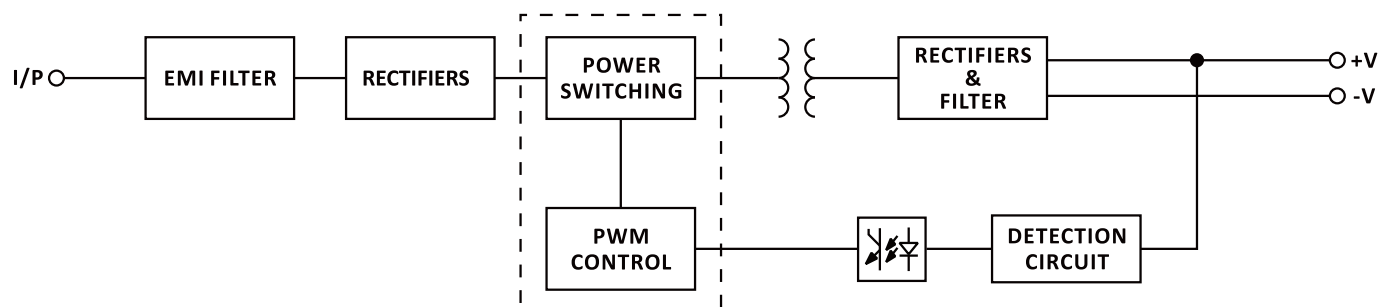
Output 12VDC 1.5A 18W / 24VDC 0.75A 18W

Input: 2x0.5mm<sup>2</sup> wire, Brown L, Blue N  
200mm length

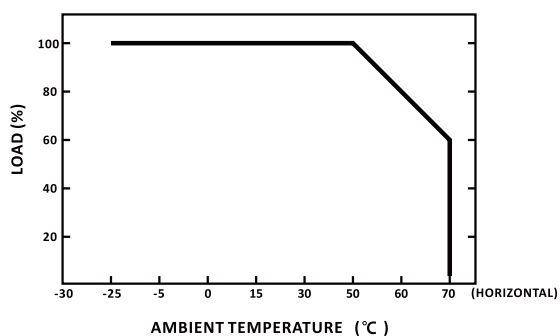
Output: 2x0.5mm<sup>2</sup> wire, Red +, Black -  
200mm length

Housing: ABS (fire retardant V0)

## Block Diagram



## Derating Curve



## Static Characteristics

