

Scharfer

Professional LED power supplies



Model: SCH-20-12 Size: 162*29*21mm
 SCH-20-24



Brief Information

Powermax™
Technology Inside

20W

Waterproof Power Supply (C.V.)

Model SCH-20-12 / SCH-20-24

Input 170-250V AC

Output 12VDC 1.67A 20W / 24VDC 0.83A 20W

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	170-250V
Input Frequency	50/60Hz
Efficiency (Typ.)	83%
Input Current	230V: 0.18A max.
Inrush Current	40A
Leakage Current	3mA/230VAC

DC Output

Output Voltage	12V	24V
Rated Current	1.67A	0.83A
Rated Power	20W	20W
Ripple & Noise (Max.)	<200mVp-p	<200mVp-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, Cut-off mode Output shuts down if over-loaded
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: 3000VAC/1min/<5mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC /25°C / 70%RH

Packaging Information

Product Dimension	162*29*21mm
Products Net Weight	170G
PCS/Carton(QTY)	100 PCS
Master Carton Size	39*39*21cm
G. Weight/ Carton	19KG

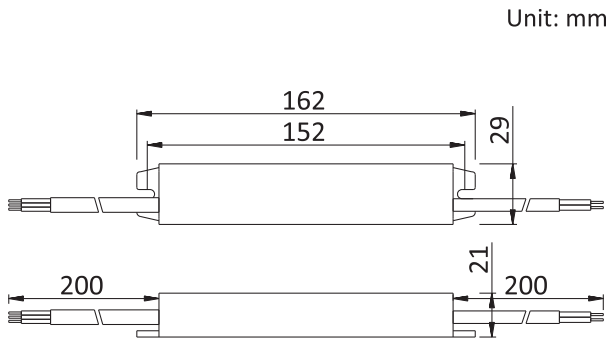
Installation Tips:

- 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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Professional LED power supplies

Physical Drawing



Brief Information

Powermax™
Technology Inside

20W

Waterproof Power Supply (C.V.)

Model SCH-20-12 / SCH-20-24

Input 170-250V AC

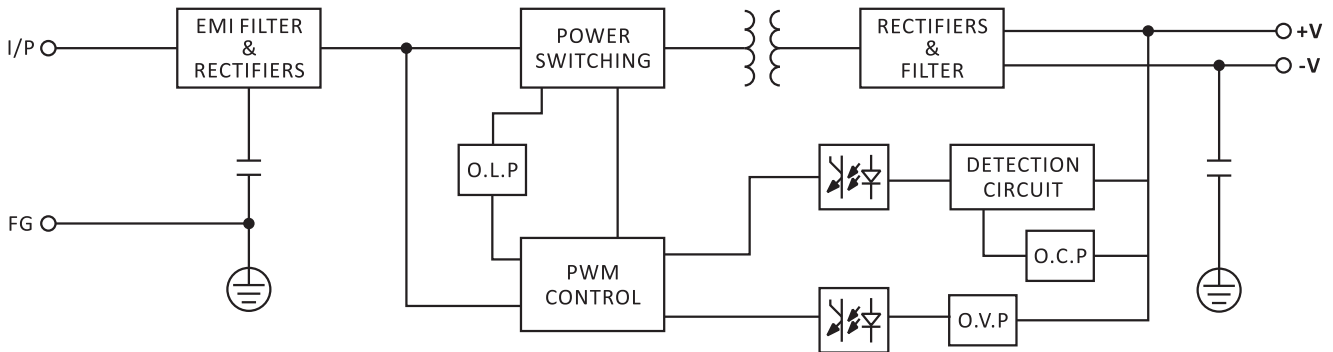
Output 12VDC 1.67A 20W / 24VDC 0.83A 20W

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

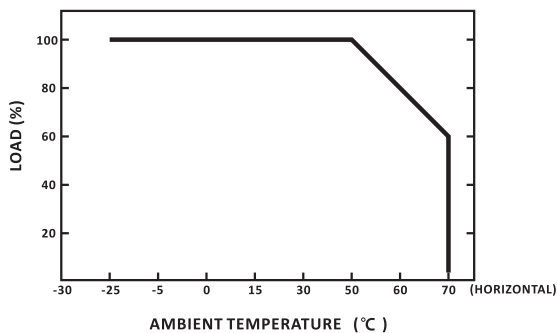
Output: 2x0.75mm² wire, Red +, Black -
200mm length

Housing: Aluminium

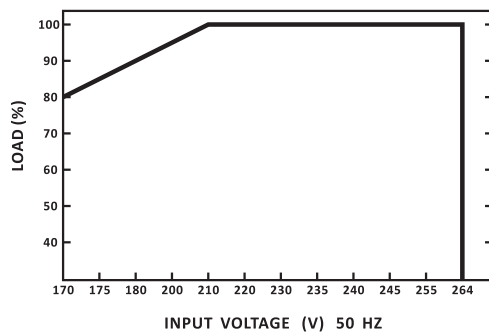
Block Diagram



Derating Curve



Static Characteristics



Scharfer

Professional LED power supplies



Model: **SCH-30-12**
SCH-30-24

Size: 162*29*21mm



Brief Information

Powermax™
Technology Inside

30W

Waterproof Power Supply (C.V.)

Model SCH-30-12 / SCH-30-24

Input 170-250V AC

Output 12VDC 2.5A 30W / 24VDC 1.25A 30W

Product Features

- Compact size, easy for installation
- High transfer efficiency
- 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	170-250V
Input Frequency	50/60Hz
Efficiency (Typ.)	85%
Input Current	230V: 0.25A max.
Inrush Current	40A
Leakage Current	1mA/230VAC

DC Output

Output Voltage	12V	24V
Rated Current	2.5A	1.25A
Rated Power	30W	30W
Ripple & Noise (Max.)	<200mVp-p	<200mVp-p
Setup, Rise Time	1500ms/230VAC	1500ms/230VAC
Line Regulation	1%	1%
Load Regulation	2%	2%

Service Environment

Working Temp.	-20°C~50°C
Working Humidity	20~99%RH
Storage Temp.	-40°C~80°C
Storage Humidity	10~99%RH

Protection

Overload	Yes, O/P voltage drop mode, active when overloaded 5-30%, recover after load reduced
Short Circuit	Yes, hiccup mode, recover automatically after fault condition removed

Safety

Safety Standard	EN 61347-2-13
Withstand Voltage	I/P-O/P: 3000KVAC/1min/<5mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC /25°C / 70%RH

Packaging Information

Product Dimension	162*29*21mm
Products Net Weight	170G
PCS/Carton(QTY)	100 PCS
Master Carton Size	39*39*21cm
G. Weight/ Carton	19KG

Installation Tips:

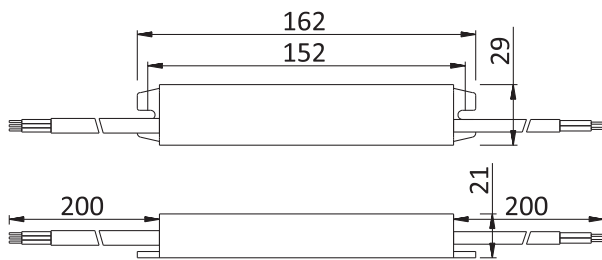
- Please identify the power supply's input and output before installation.
- Ensure correct output + & - wire connection. Power on after wire connection is done.
- To avoid voltage drop and loading capacity wasting on the output extension wire, please install the power supply to the loading as near as 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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Professional LED power supplies

Physical Drawing

Unit: mm



Brief Information

Powermax™
Technology Inside

30W

Waterproof Power Supply (C.V.)

Model SCH-30-12 / SCH-30-24

Input 170-250V AC

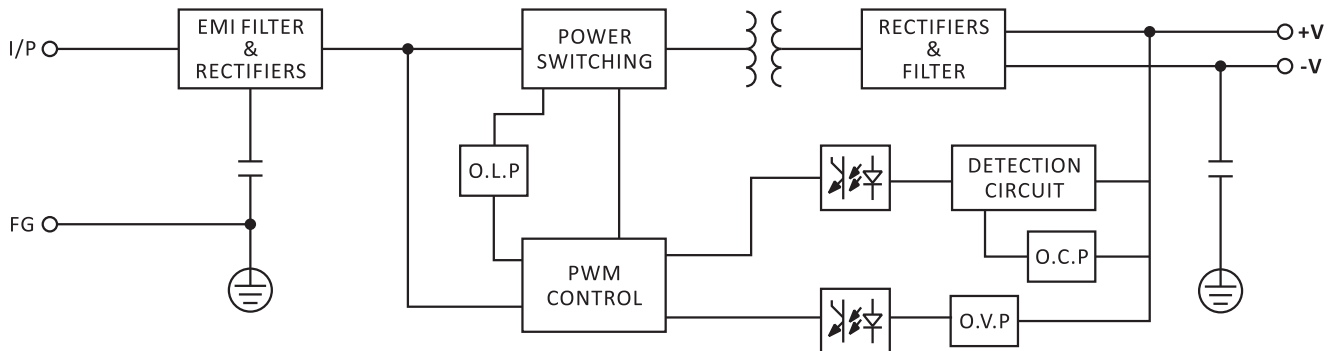
Output 12VDC 2.5A 30W / 24VDC 1.25A 30W

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

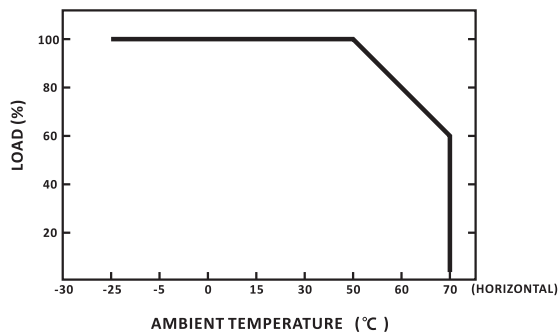
Output: 2x0.75mm² wire, Red +, Black -
200mm length

Housing: Aluminium

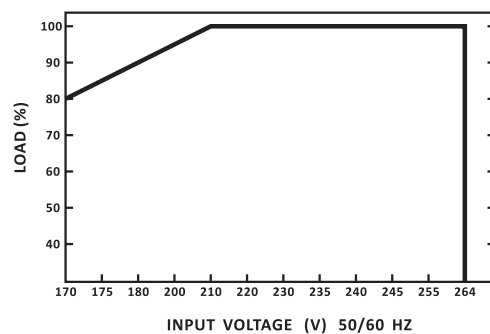
Block Diagram



Derating Curve

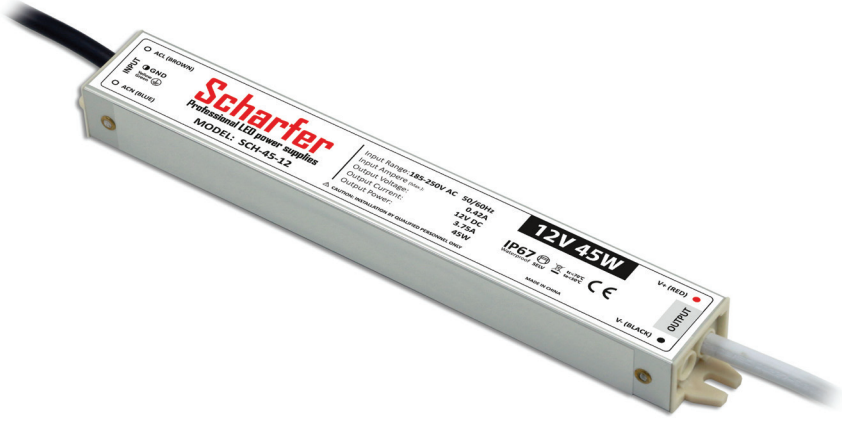


Static Characteristics



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Professional LED power supplies



Model: SCH-45-12

Size: 190*29*21mm



Brief Information

Powermax™
Technology Inside

45W

Waterproof Power Supply (C.V.)

Model SCH-45-12

Input 170-250V AC

Output 12VDC 3.33A 45W

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	170-250V
Input Frequency	50/60Hz
Efficiency (Typ.)	85%
Input Current	230V: 0.36A max.
Inrush Current	40A
Leakage Current	1mA/230VAC

DC Output

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

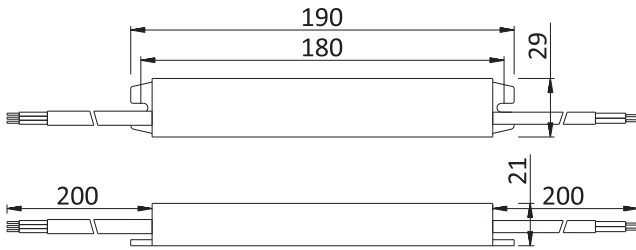
- Please identify the power supply's input and output before installation.
- Ensure correct output + & - wire connection.
Power on after wire connection is done.
- To avoid voltage drop and loading capacity wasting on the output extension wire, please install the power supply to the loading as near as 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.

Scharfer

Professional LED power supplies

Physical Drawing

Unit: mm



Brief Information

Powermax™
Technology Inside

45W

Waterproof Power Supply (C.V.)

Model SCH-45-12

Input 170-250V AC

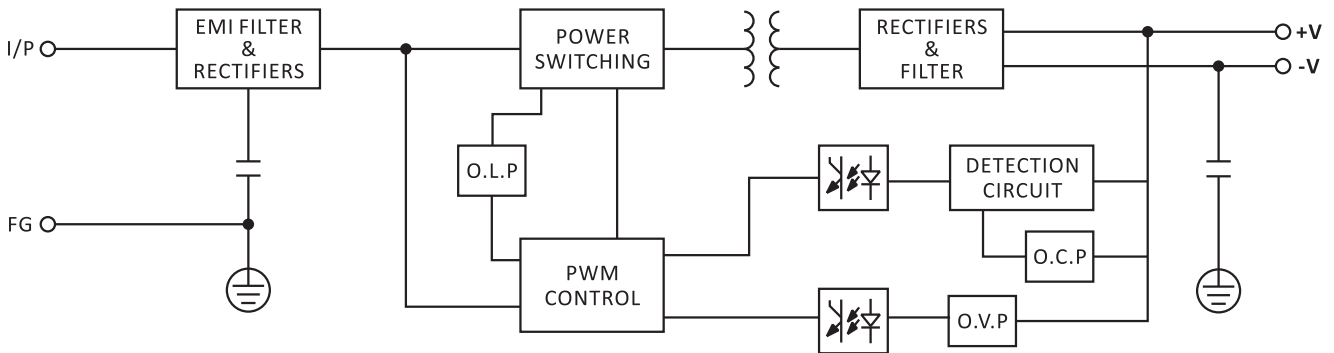
Output 12VDC 3.33A 45W

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

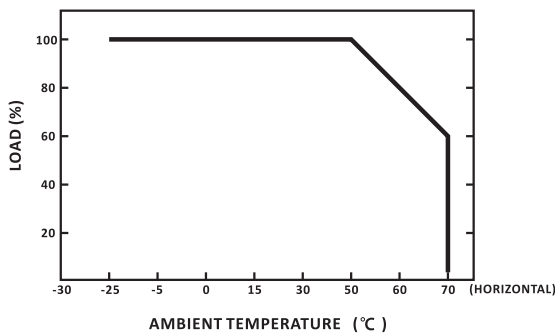
Output: 2x0.75mm² wire, Red +, Black -
200mm length

Housing: Aluminium

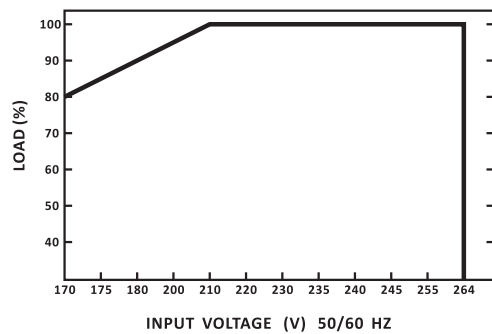
Block Diagram



Derating Curve



Static Characteristics



Scharfer

Professional LED power supplies



Model: SCH-60-12
SCH-60-24

Size: 222*29*21mm



Brief Information

Powermax™
Technology Inside

60W

Waterproof Power Supply (C.V.)

Model SCH-60-12 / SCH-60-24

Input 170-250V AC

Output 12VDC 5A 60W/ 24VDC 2.5A 60W

Product Features

- Super slim design
- High transfer efficiency
- Stable constant voltage output
- IP67, for both indoor & outdoor
- 100% full loading, 100% burn-in tested
- Overload/short circuit protection

MAIN ELECTRICAL DATA

AC Input

Input Voltage	170-250V
Input Frequency	50/60Hz
Efficiency (Typ.)	86%
Input Current	230V: 0.53A max.
Inrush Current	40A
Leakage Current	1mA/230VAC

DC Output

Output Voltage	12V	24V
Rated Current	5A	2.5A
Rated Power	60W	60W
Ripple & Noise (Max.)	<300mVp-p	<300mVp-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	20~98%RH
Storage Temp.	-40°C~80°C
Storage Humidity	10~98%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	222*29*21mm
Products Net Weight	240G
PCS/Carton(QTY)	50 PCS
Master Carton Size	40*24*23cm
G. Weight/ Carton	13.5KG

Installation Tips:

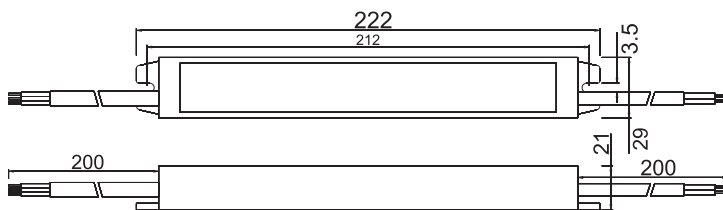
- Please identify the power supply's input and output before installation.
- Ensure correct output + & - wire connection.
Power on after wire connection is done.
- To avoid voltage drop and loading capacity wasting on the output extension wire, please install the power supply to the loading as near as 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.

Scharfer

Professional LED power supplies

Physical Drawing

Unit: mm



Brief Information

Powermax™
Technology Inside

60W

Waterproof Power Supply (C.V.)

Model SCH-60-12 / SCH-60-24

Input 170-250V AC

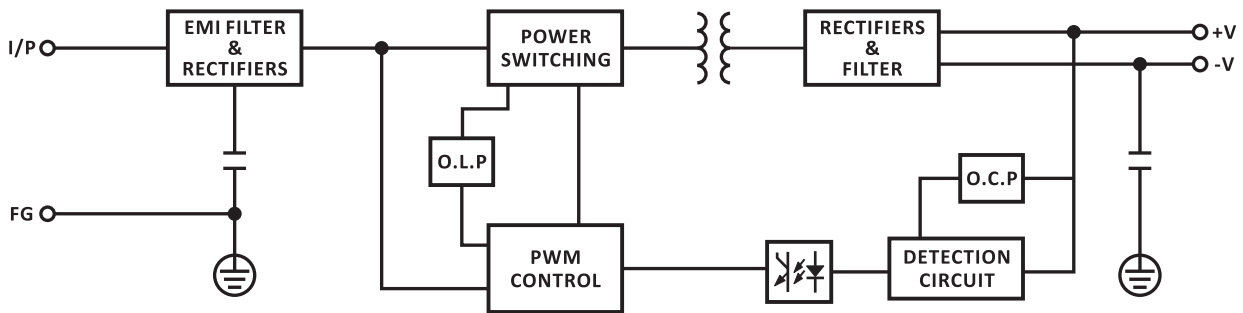
Output 12VDC 5A 60W/ 24VDC 2.5A 60W

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

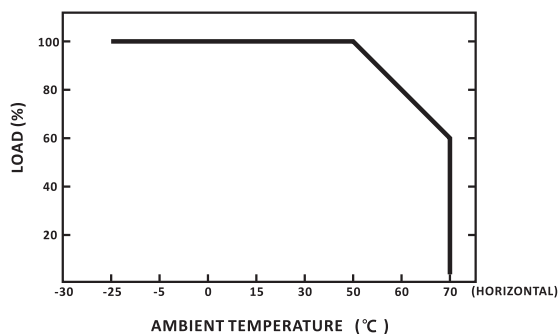
Output: 2x0.75mm² wire, Red +, Black -
200mm length

Housing: Aluminium

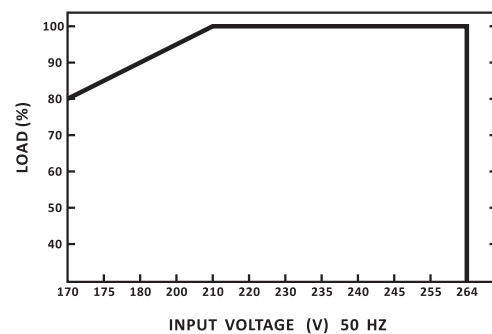
Block Diagram



Derating Curve



Static Characteristics



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Professional LED power supplies



Model: **SCH-100-12** Size: 218*40*22mm
SCH-100-24



Brief Information

SSS
Super Slim Series

100W

Waterproof Power Supply (C.V.)

Model SCH-100-12 / SCH-100-24

Input 170-250V AC

Output 12V DC 8.33A 100W / 24V DC 4.17A 100W

Product Features

- Compact size, easy for installation
- High transfer efficiency
- 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	170-250V
Input Frequency	50/60Hz
Efficiency (Typ.)	90%
Input Current	230V: 0.72A _{max.}
Inrush Current	40A
Leakage Current	5mA/230VAC

DC Output

Output Voltage	12V	24V
Rated Current	8.33A	4.17A
Rated Power	100W	100W
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, cut-off mode, output shuts down if 10-20% over-loaded
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: 3000VAC/1min/<5mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC /25°C / 70%RH

Packaging Information

Product Dimension	218*40*22mm
Products Net Weight	390G
PCS/Carton(QTY)	40 PCS
Master Carton Size	37*26*26cm
G. Weight/ Carton	17KG

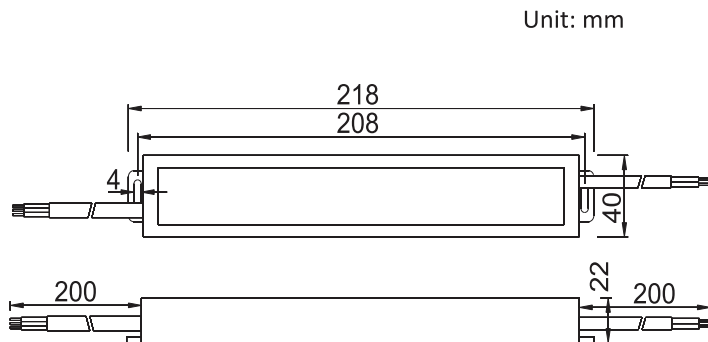
Installation Tips:

- 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.

Scharfer

Professional LED power supplies

Physical Drawing



Brief Information

SSS
Super Slim Series

100W

Waterproof Power Supply (C.V.)

Model SCH-100-12 / SCH-100-24

Input 170-250V AC

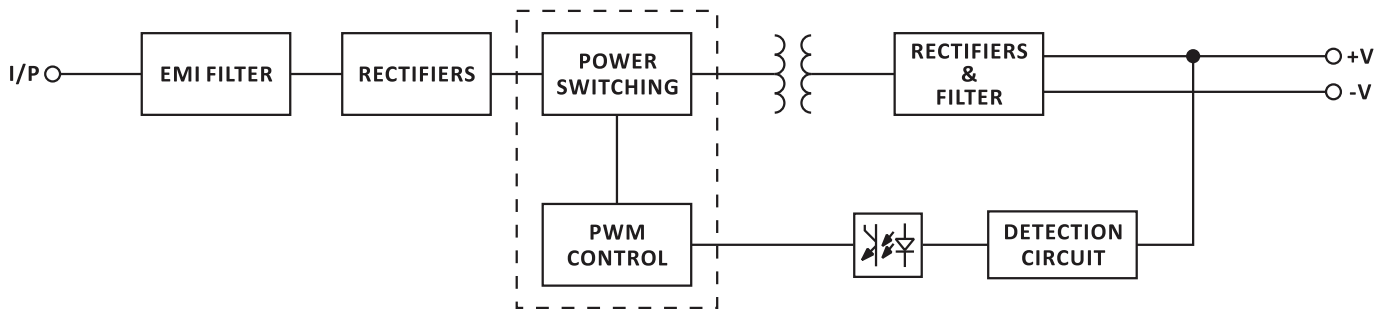
Output 12V DC 8.33A 100W / 24V DC 4.17A 100W

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

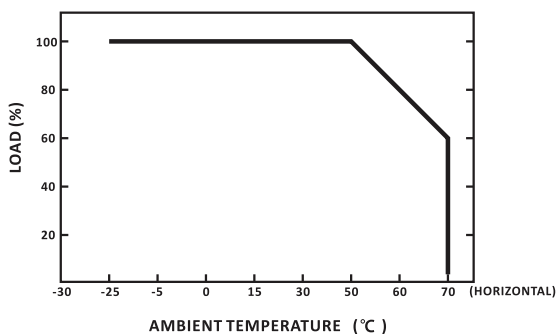
Output: 2x1mm² wire, Red +, Black -
200mm length

Housing: Aluminium

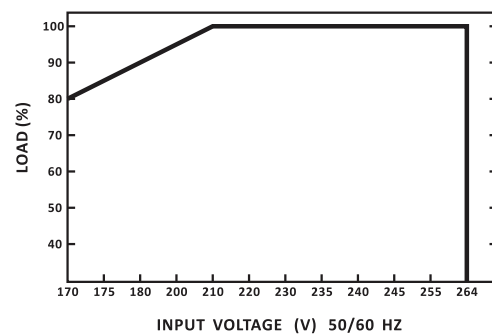
Block Diagram



Derating Curve



Static Characteristics



Scharfer

Professional LED power supplies



Model: **SCH-150-12** Size: 279*57*25mm
SCH-150-24

CE SELV   **IP67** Waterproof **Ultra-thin**

Brief Information

Ultra-thin
25mm Height

150W

Waterproof Power Supply (C.V.)

Model SCH-150-12 / SCH-150-24

Input 170~250V AC

Output 12VDC 12.5A 150W / 24VDC 6.25A 150W

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	170~250V
Input Frequency	50/60Hz
Efficiency (Typ.)	87%
Input Current	230V: 1.45A max.
Inrush Current	40A
Leakage Current	3mA/230VAC

DC Output

Output Voltage	12V	24V
Rated Current	12.5A	6.25A
Rated Power	150W	150W
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, cut-off mode, output shuts down if over-loaded
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	279*57*25mm
Products Net Weight	680G
PCS/Carton(QTY)	25 PCS
Master Carton Size	41.5*33*18cm
G. Weight/ Carton	18KG

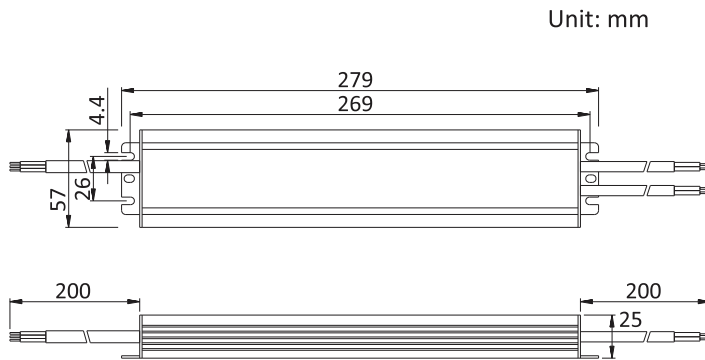
Installation Tips:

- 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.

Scharfer

Professional LED power supplies

Physical Drawing



Brief Information

Ultra-thin
25mm Height

150W

Waterproof Power Supply (C.V.)

Model SCH-150-12 / SCH-150-24

Input 170~250V AC

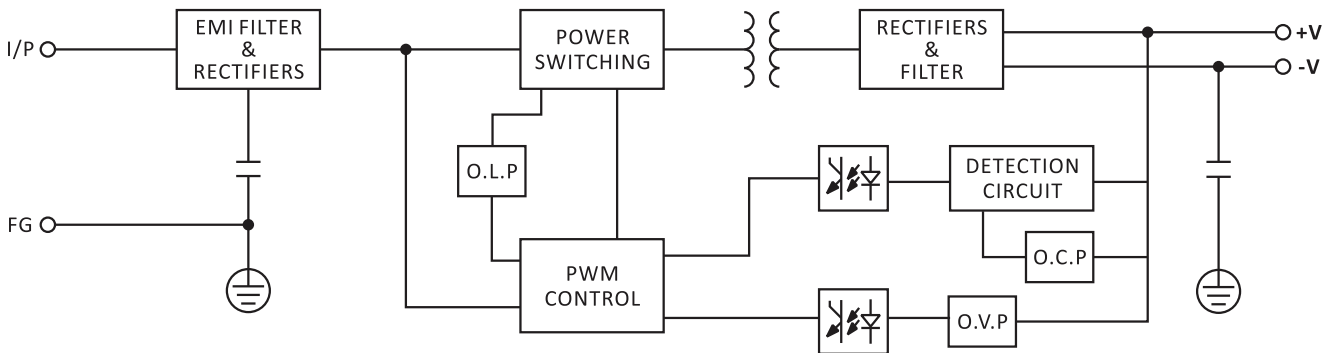
Output 12VDC 12.5A 150W / 24VDC 6.25A 150W

Input: 3x1.0mm² wire, Brown L, Blue N
200mm length

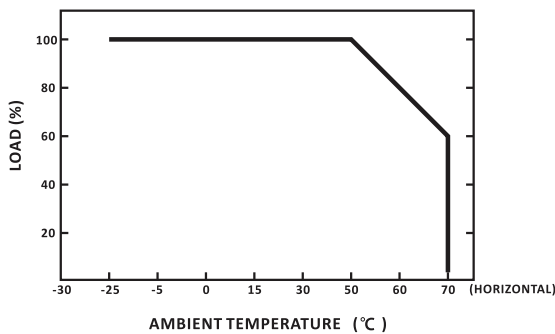
Output: 2x0.75mm² wire, Red +, Black -
200mm length

Housing: Aluminium

Block Diagram



Derating Curve



Static Characteristics

