



Extreme Networks AC/DC Industrial Power Supply Units

Safety & Installation Guide

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Table of Contents

Preface.....	4
Text Conventions.....	4
Getting Help.....	4
Related Publications.....	5
Providing Feedback to Us.....	5
Chapter 1: Safety Information.....	6
Safety Warnings.....	6
Input and Output Ratings for Each Model.....	7
Chapter 2: Installing PSUs.....	8
Mounting Instructions.....	9

Preface

Text Conventions

The following tables list text conventions that are used throughout this guide.

Table 1: Notice Icons

Icon	Notice Type	Alerts you to...
	General Notice	Helpful tips and notices for using the product.
	Note	Important features or instructions.
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.
	New	This command or section is new for this release.

Table 2: Text Conventions

Convention	Description
Screen displays	This typeface indicates command syntax, or represents information as it appears on the screen.
The words enter and type	When you see the word “enter” in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says “type.”
[Key] names	Key names are written with brackets, such as [Return] or [Esc] . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press [Ctrl]+[Alt]+[Del]
<i>Words in italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.

Getting Help

If you require assistance, contact Extreme Networks using one of the following methods:

[Extreme Portal](#)

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

The Hub

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

Call GTAC

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1(408) 579 2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number, or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any actions already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Related Publications

ISW-Series Switches

- *ISW-Series Managed Industrial Ethernet Switch Command Reference Guide*
- *ISW-Series Managed Industrial Ethernet Switch Hardware Installation & User Guide*
- *ISW-Series Managed Industrial Ethernet Switch Quick Installation Guide*
- *ISW-Series Managed Industrial Ethernet Switch Web Configuration Guide*

Providing Feedback to Us

The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information in the document.
- Broken links or usability issues.

If you would like to provide feedback, you can do so in three ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

1 Safety Information

Safety Warnings

Input and Output Ratings for Each Model

Safety Warnings



Warning

Electrical Hazard: Only qualified personnel should perform installation procedures and field wiring to AC primary voltage source.



Warning

Electrical Hazard: Risk of electrical shock and energy hazard. All failures should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!



Danger

Electrical Hazard: Risk of electric arcs and electric shock (danger to life). Connecting both the primary and the secondary sides together is not allowed.



Warning

Do not install the unit in places with high moisture or near the water.



Warning

The Frame Ground (FG) must be connected to PE (Protective Earth).



Warning

Before commencing any installation, maintenance, or modification work, disconnect your system from supply voltage. Make sure that inadvertent connection in circuit will be impossible!



Warning

Always allow good ventilation clearances: 5mm left and right, 40 mm above, and 20 mm below the unit in use to prevent it from overheating. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source.



Warning

The appropriate mounting orientation for the unit is vertical, the input terminals at the bottom and output on the top. Mounting orientations other than that, such as upside down, horizontal, or table-top mounting, is not allowed.

Warning

To reduce risk of accidental shock or burn, install PSU in a Restricted Access Location. A Restricted Access Location is a location for equipment where both of the following apply:



- Access can only be gained by SERVICE PERSONS or by USERS who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.
 - Access is through the use of a TOOL or lock and key, or other means of security, and is controlled by the authority responsible for the location.
-

Warning

For continued protection against risk of fire, replace only with same type and rating of fuse.

Pour ne pas compromettre la protection contre les risqué d'incendie, remplacer par un fusible de même type et de memes caractéristiques nominales

Input and Output Ratings for Each Model

Model	Input Rating	Output Rating
SDR-240-48 (PN 16807)	100-240VAC 2.6A 50/60Hz	55V 4.36A
SDR-480-48 (PN 16920)	100-240VAC 5.0A 50/60Hz	55V 8.73A

Note

- Power supply 16807 and 16920 require field wiring. It must be installed in accordance with local electrical codes by a licensed electrician.
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2 Installing PSUs

Mounting Instructions

Ensure you have read the [Safety Warnings](#) on page 6 before installation.

- 1 Use copper wire only. [The following table](#) shows recommended wires.

Table 3: Recommended Wires

AWG	18	16	14	12	10
Rated Current of Equipment (Amp)	6A	6-10A	13-16A	16-25A	25-32A
Cross-section of Lead (mm ²)	.75	1.00	1.5	2.5	4

Note



- Current each wire carries should be de-rated to 80% of the current suggested above when using 5 or more wires connected to the unit.
- The maximum allowable wire cross-sectional area for the terminal of the SDR-75 is 12AWG/2.5 mm².

- 2 Make sure that all strands of each stranded wire enter the terminal connection and the screw terminals are securely fixed to prevent poor contact.
If the power supply possesses multi-output terminals, make sure each contact is connected to wires to prevent too much current stress on a single contact.
- 3 Use wires that can withstand temperatures of at least 80°C, such as UL1007.
- 4 The recommended screwdriver is 4mm, slotted type.
- 5 The recommended torque setting for terminals is shown in [in the table below](#).

Table 4: Recommended Terminal Torque Settings

Model	I/P	O/P
SDR-240 / 480	5 kgf-cm (4.4 lb-in)	8 kgf-cm (7 lb-in)

- 6 The suggested fuse and maximum number of the SDR PSUs that can be connected to a circuit breaker at 230V are shown in [the following table](#).

Table 5: Suggested Fuse and Max # of SDR PSUs

Model	Fuse	Circuit Breaker	
		C16	D16
SDR-240	T5A/L250V	4	8
SDR-480	T8A/L250V	4	4

Mounting Instructions

Ensure you have read the [Safety Warnings](#) on page 6 before mounting.

- 1 Mount only as shown in [the figure below](#), with input terminals down. Otherwise, sufficient cooling will not be possible.

Admissible DIN rail: TS35/7.5 or TS35/15.



Figure 1: Rail Fastening Orientation

- 2 Tilt the unit slightly rearwards.
- 3 Fit the unit over top hat rail.
- 4 Slide it downward until it hits the stop and press against the bottom to lock it in place.
- 5 Shake the unit slightly to check the locking action.