

- 1 stop bit
- No parity
- None (flow control)

9. Connect power to the switch as described in [Connecting to Power, page 39](#).

10. When the PC or terminal displays the bootloader sequence, press **Enter** to display the setup prompt.

11. Follow the steps in [Completing the Setup Program, page 106](#).

Connecting to Power

In systems configured with the redundant power option, connect each of the two power supplies to separate independent power sources. If you fail to do this, your system might be susceptible to total power failure due to a fault in the external wiring or a tripped circuit breaker.

Tools and Equipment

Obtain these necessary tools and equipment:

- Ratcheting torque flathead screwdriver that exerts up to 15 in-lb (1.69 N-m) of pressure.
- For the protective ground connector, obtain a single or pair of stud size 6 ring terminals (such as Hollingsworth part number R3456B or equivalent).
- Crimping tool (such as Thomas & Bett part number WT2000, ERG-2001, or equivalent).
- 10-gauge copper ground wire (such as Belden part number 9912 or equivalent).
- For DC power connections, use UL- and CSA-rated, style 1007 or 1569 twisted-pair copper appliance wiring material (AWM) wire (such as Belden part number 9318).
- Wire-stripping tools for stripping 10- and 18-gauge wires.
- A number-2 Phillips screwdriver.
- A flat-blade screwdriver.

Supported Power Supplies

The supported power supplies are listed in [Table 11 on page 39](#).

Table 11 Supported Power Supplies

	PWR-IE170W-PC-DC=	PWR-IE170W-PC-AC=	PWR-IE65W-PC-DC=	PWR-IE65W-PC-AC=	PWR-IE50W-AC-IEC=	PWR-IE50W-AC=
Current	DC-DC	AC-DC	DC-DC	AC-DC	AC-DC	AC-DC
Input	10.8-60 VDC	90-264 VAC or 106-300 VDC	18-60 VDC/4.3 Amp	110/220 VAC and 88-300 VDC	110/220 VAC	110/220VAC and 88-300 VDC
Output	54 VDC/3.15 A	54 VDC/3.15 A	54VDC/1.2 Amp	54VDC/1.2 Amp	24VDC/2.1Amp	24 VDC / 2.1Amp

Table 11 Supported Power Supplies

Dimensions	5.93 in H x 4.47 in. W x 5.75 in. D	5.93 in H x 3.72 in. W x 5.60 in. D	5.9 in H x 2.1 in. W x 4.9 in. D	5.9 in. H x 2.1 in. W x 4.9 in. D	5.8 in. H x 2 in. W x 4.4 in. D	5.8 in. H x 2 in. W x 4.4 in. D
Attachable?	Non-attachable	Non-attachable	Non-attachable	Non-attachable	Attachable unit	Attachable unit
Usage	Designed for PoE modules, can be used to power the switch.	Designed for PoE modules, can be used to power the switch.	Designed for PoE ¹ modules, can be used to power the switch.	Designed for PoE modules, can be used to power the switch.	Powers the switch. Cannot be used to power PoE modules, which require 48V DC.	Powers the switch. Cannot be used to power PoE modules, which require 48V DC.

¹. The models that support PoE provide up to four ports of either PoE (15.4 W per port; IEEE 802.3af) or PoE+ (30 W per port; IEEE 802.3at), depending on the power source used. See [Power Requirements, page 82](#).

Installing the Power Converter on a DIN Rail, Wall, or Rack Adapter

You install the power converter on a DIN rail, wall, or rack as you would a switch module.

Warning: This equipment is supplied as “open type” equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The interior of the enclosure must be accessible only by the use of a tool. The enclosure must meet IP 54 or NEMA type 4 minimum enclosure rating standards. Statement 1063

Caution: To prevent the switch assembly from overheating, there must be a minimum of 3 inches (76.19 mm) between any other device and the top, bottom, or sides of the switch assembly.

Grounding the Switch

Follow the grounding requirements at your site.

Warning: This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available. Statement 1024

Warning: This equipment is intended to be grounded to comply with emission and immunity requirements. Ensure that the switch functional ground lug is connected to earth ground during normal use. Statement 1064

Caution: To ensure that the equipment is reliably connected to earth ground, follow the grounding procedure instructions, and use a UL-listed ring terminal lug suitable for number 10-to-12 AWG wire, such as Hollingsworth part number R3456B or equivalent)

Caution: Use at least a 4 mm² conductor to connect to the external grounding screw.

The ground lug is not supplied with the switch. You can use one of the these options:

- Single ring terminal
- Two single ring terminals

To ground the switch to earth ground by using the ground screw, follow these steps:

1. Use a standard Phillips screwdriver or a ratcheting torque screwdriver with a Phillips head to remove the ground screw from the front panel of the switch.

Store the ground screw for later use.