Chapter 4

Powering the Modular Switch

Important! Installation of this equipment must comply with local and national electrical codes. If necessary, consult with the appropriate regulatory agencies and inspection authorities to ensure compliance.

Installation de cet équipement doit être conformes aux codes électriques locaux et nationaux. Si nécessaire, consulter les organismes de réglementation appropriés et des autorités de contrôle pour assurer la conformité.

The switch operates with multiple power supplies. Refer to Table 1-1 on page 3 for information regarding your specific system. Table 4-1 lists the quantity of modules each chassis can contain and the minimum operating requirements for each model.

Table 4-1 Power Supply Capacity and Requirements for 7368X4 Series Modular Switches

Switch Model	Chassis Capacity (Power Supply Units)	Minimum Operating Requirements (non-redundant power)
DCS-7368X4	4	1 active circuit

Appendix D displays the location of the power supplies on the rear panel of the switch. Unpopulated power supply bays must be covered using the appropriate “blank” for the switch.

This chapter includes sections that describe procedure for grounding and cabling power supplies. After completing the instructions for your switch, proceed to Chapter 5.

Important! Read all installation instructions before connecting the system to the power source.

Lire toutes les instructions d'installation avant de brancher le système à la source d'alimentation.

- **Non-Redundant Configuration:** Provide power to the minimum required power inputs.
- **Redundant Power Supply Configuration:** Connecting power to modules in excess of minimum requirements protects the switch against failed modules and can provide grid-level redundancy.
- **Power down the Switch:** Remove all power cords from the power input sockets.

Important! This equipment must be grounded. Never defeat the ground conductor. This unit requires over-current protection.

Cet équipement doit être mis à la terre. Ne jamais modifier le conducteur de terre. Cet appareil nécessite de protection contre les surintensités.

4.1 Cabling the AC Power Supply

4.1.1 Grounding the Switch

After mounting the switch into the rack, connect the switch to the data center ground. Figure 4-2 displays the location of the grounding pads located on the rear of the switch. It is recommended that you use a right-angle ground lug to attach the chassis ground wire. Figure 4-2 displays the chassis ground wire attached to the switch and routed out for attachment to the data center ground.

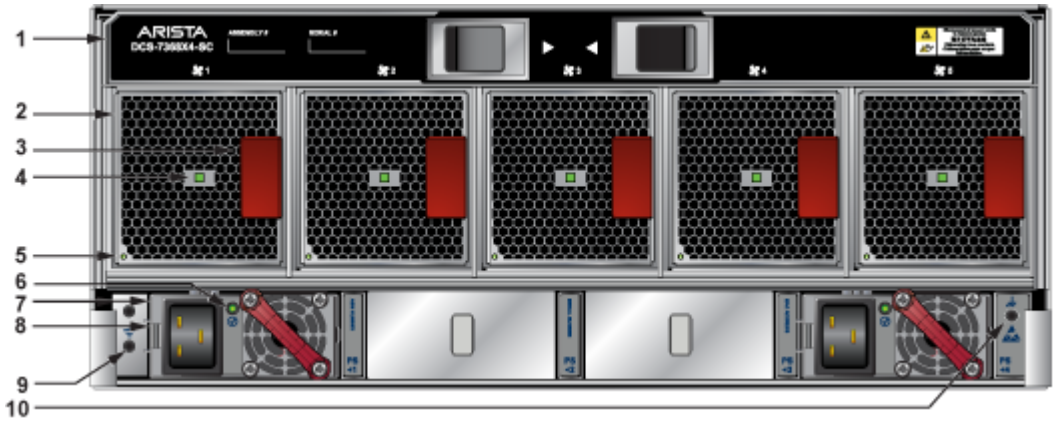
Figure 4-1: Grounding Pad and ESD Grounding Pad Sockets

Important! Grounding wires and grounding lugs (M4 x 0.7) are not supplied. Wire size should meet local and national installation requirements. Commercially available 6 AWG wire is recommended for installations in the U.S.

À la terre et de mise à la terre fils cosses (M4 x 0.7) ne sont pas fournis. Calibre des fils doit satisfaire des exigences de l'installation locale et nationale. Disponible dans le commerce des câbles 6 AWG sont recommandé pour les installations aux États-Unis.

After the switch is grounded, ESD wrist straps can be grounded by connecting them to the ESD port on either the rear (Figure 4-2) or the front of the switch (Figure 4-3).

Figure 4-2: Grounding Pad and ESD Grounding Pad Sockets (Rear)



1	Switch Card Module Release Handle	2	Fan
3	Fan Release Handle	4	Fan Installation Indicator
5	Fan Status LED	6	PSU Status LED
7	PSU	8	PSU Release Handle
9	Ground	10	ESD

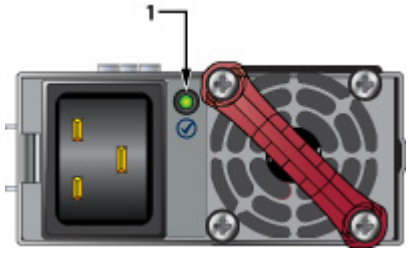
Figure 4-3: ESD Grounding Pad Sockets (Front)

1	Supervisor Module	2	Supervisor Ejector Latch
3	Linecard Ejector Latch	4	ESD

4.1.2 Connecting Power Cables to an AC Power Supply

Figure 4-4 displays an AC power supply module, including the power input socket.

Figure 4-4: Power Input Sockets



1	Power Supply Status LED

The power supplies require power cables that comply with IEC-320 C19 plug. The accessory kit provides 14 AWG, C19 to C20 power cables.

To insert a power cable:

Step 1 Pull the retaining clip back on each power input socket.

Note The retaining clip is optional (if provided).

Step 2 Plug the power cables into the sockets.

Step 3 Adjust the retaining clips if needed for your power cords (if retaining clip was provided).

Step 4 Push the retaining clip back down over the cable (if retaining clip was provided).