Technical Specifications

Technical Specifications

The most current technical specifications for the IE 3x00 series switches can be found in the data sheets:

- Cisco Catalyst IE3200 Rugged Series Data Sheet
- Cisco Catalyst IE3300 Rugged Series Data Sheet
- Cisco Catalyst IE3400 Rugged Series Data Sheet

Additional specifications and details not in the data sheets are in this section.

Enclosure Specifications

Table 1: Enclosure specifications for the Cisco IE 3X00 Switches

	Industrial Automation and Hazardous Locations	**Substation**	**Traffic Signal**
Enclosure types	Sealed enclosures For example: NEMA4, NEMA4X, NEMA12, NEMA13, IP54, and IP66.	Vented enclosures For example: NEMA1, IP20, and IP21.	Fan or blower-equipped enclosures For example: NEMA TS-2. **Note:** The minimum airflow is 150 lfm[1].

[1] lfm = linear feet per minute.

Current and Input Voltage Ratings

Table 2: Current and Input Voltage Rating

Model	Voltage Range	@Max Amps	PoE / PoE (+) budget
IE-3200-8T2S	12-48Vdc	2.2A	N/A
IE-3200-8P2S	12-54Vdc	5.5A	240W
IE-3300-8T2S	12-48Vdc	4.0A	N/A
IE-3300-8T2X	12-48Vdc	4.0A	N/A
IE-3300-8U2X	12-54Vdc	10.6A	480W
IE-3300-8P2S	12-54Vdc	10.6A	240W (base), 360W (with module)
IE-3400-8T2S	12-48Vdc	4.4A	N/A
IE-3400-8P2S	12-54Vdc	10.7A	240W (base), 480W (with expansion module)

Alarm Ratings

Table 3: Cisco IE3x00 Alarm Ratings

Alarm Ratings	Specification
Alarm input electrical specification	Senses an external dry contact. The open circuit voltage between any alarm input (1 to 4) and alarm input common is 3.3 VDC. The loop current is 3 mA max per input. The alarm input's low-level input voltage threshold is 0.4V. Do not apply external power to the alarm input.
Alarm output electrical specification	1.0 A @ 24 VDC or 0.5 A @ 48 VDC

Installation Guidelines for Utility, Railway, and Marine Environments

Follow the guidelines in this section when installing the switch in utility, railway, and marine environments,

- Use shielded Ethernet cables to comply with the EMC requirements for power utility, power stations, railways, and marine environments. These installations refer to DNVGL CG-0339, IACS UR E10, IEC 60945.

- Use industrial grade SFP modules rated for -40C to +85C operation.
- For marine installations, you must install the product inside a metal enclosure, preferably IP54 or better.
- Use DNVGL "Type Approved" power supply for marine installations that use DNVGL CG-0339 guidelines.

  Cisco IE3x00 series switches require 54V (typical) for PoE operation. Refer to the Current and Input Voltage Ratings, on page 2 section for more details on the power input.
- IE3x00 products are approved for the marine installation category “All locations except bridge and open deck.”
- The IE3200 series complies with specific requirements of EN50155, exclusions clauses apply.