



APPENDIX **A**

Technical Specifications

This appendix lists the Cisco XR 12410 router specifications.

Router Specifications

The Cisco XR 12410 router specifications are presented in four tables:

- [Table A-1, “Physical Specifications”](#)
- [Table A-2, “AC Electrical Specifications”](#)
- [Table A-3, “DC Electrical Specifications”](#)
- [Table A-4, “Environmental Specifications”](#)

Table A-1 **Physical Specifications**

Description	Value
Chassis height	37.5 in. (95.2 cm)
Chassis width	17.25 in. (43.8 cm) 19.0 in. (48.3 cm) including chassis rack-mount flanges and front door width
Chassis depth	22.0 in. (55.9 cm) 26.5 in (67.3 cm) including cable management system and front cover
Weight <ul style="list-style-type: none"> • chassis only • chassis: fully configured using all card slots and 2 AC input power supplies 	125 lb (56.7 kg) 287 lb (130.2 kg)

Table A-2 AC Electrical Specifications

Description	Value
Total AC Input Power	3000 VA (volt-amps) per AC power supply (2 AC power supplies per system)
Rated input voltage ¹	200–240 VAC nominal (range: 180 to 264 VAC) 220–240 VAC (UK)
Rated input line frequency ¹	50/60 Hz nominal (range: 47 to 63 Hz) 50/60 Hz UK
Input current rating ¹	15 A maximum @ 200 VAC 13 A maximum @ 220 to 240 VRMS (UK)
Source AC service requirement ¹	20 A North America; 16 A international; 13 A UK
Heat dissipation (total maximum)	2800 W@9,544 BTU/hour
Redundancy	2 AC power supply modules required for 2N redundancy

1. For each AC power supply module.

**Caution**

To ensure that the chassis configuration complies with the required power budgets, use the on-line power calculator. Failure to properly verify the configuration may result in an unpredictable state if one of the power units fails. Contact your local sales representative for assistance.

Table A-3 DC Electrical Specifications

Description	Value
Total DC Input Power	2800 W per DC power entry module
Rated input voltage ¹	–48 VDC nominal in North America –60 VDC nominal in the European Community (range: –40.5 to –72 VDC (–75 VDC FOR 5mS))
Input current rating ¹	40 A maximum (2x)

Table A-3 **DC Electrical Specifications**

Description	Value
Source DC service requirement ¹	Sufficient to supply the rated input current. Local codes apply.
Redundancy	2 DC power entry modules required for 2N redundancy

1. For each DC power entry module.

**Caution**

To ensure that the chassis configuration complies with the required power budgets, use the on-line power calculator. Failure to properly verify the configuration may result in an unpredictable state if one of the power units fails. Contact your local sales representative for assistance.

Table A-4 Environmental Specifications

Description	Value
Temperature	Operating: 32° to 104°F (0° to 40°C) Nonoperating: -4° to 149°F (-20° to 65°C)
Humidity	Operating: 10 to 85% noncondensing Nonoperating: 5 to 95% noncondensing
Altitude	Operating: 0 to 10,000 ft (0 to 3,000 m) Nonoperating: 0 to 15,000 ft (0 to 4,570 m)
Heat dissipation	9,554 BTU/hr maximum
Acoustic noise	70 dBa maximum
Shock	Operating (halfsine): 21 in/sec (0.53 m/sec) Nonoperating (trapezoidal pulse): 20 G ¹ , 52 in/sec (1.32 m/sec)
Vibration	Operating: 0.35 Grms ² from 3 to 500 Hz Nonoperating: 1.0 Grms from 3 to 500 Hz

1. G is a value of acceleration, where 1G equals 32.17 ft/sec² (9.81 m/sec²).
2. Grms is the root mean square value of acceleration.

