



# Technical Specifications

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[Table A-1](#), [Table A-2](#), [Table A-3](#), and [Table A-4](#) list the technical specifications for the Catalyst 2900 series switches.

For switches that support modules (Catalyst 2912MF XL and 2924M XL), also refer to the *Catalyst 2900 Series XL Modules Installation Guide* and the *Catalyst 2900 Series XL ATM Modules Installation Guide* for additional specifications.

[Table A-5](#) lists the agency approvals for EMI and safety.

**Table A-1 Technical Specifications for the Catalyst 2912 XL and Catalyst 2912MF XL Switches**

	Catalyst 2912 XL	Catalyst 2912MF XL
<b>Environmental Ranges</b>		
Operating temperature	32 to 113°F (0 to 45°C)	32 to 113°F (0 to 45°C)
Storage temperature	-4 to 149°F (-10 to 65°C)	-4 to 149°F (-10 to 65°C)
Operating humidity	10 to 85% (noncondensing)	10 to 85% (noncondensing)
Operating altitude	Up to 10,000 ft (3000 m)	Up to 10,000 ft (3000 m)
Storage altitude	Up to 15,000 ft (4570m)	Up to 15,000 ft (4570 m)
<b>Power Requirements</b>		
AC input voltage	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz
DC input voltages	+5V ---@9A, +12V ---@0.5A	+5V ---@12A, +12V ---@0.75A +5V ---@22A, +12V ---@0.75A with two modules installed
Power consumption	70W (maximum) 239 Btus per hour	90W (maximum) 307 Btus per hour 170W with two modules installed 580 Btus per hour
<b>Physical Dimensions</b>		
Weight	7 lb (3.2 kg)	14 lb (6.3 kg) 15.5 lb (7.1 kg) with two modules installed
Dimensions (H x W x D)	1.73 x 17.5 x 9.79 in. (4.4 x 44.5 x 24.8 cm)	3.46 x 17.5 x 12 in. (8.8 x 44.5 x 30.5 cm)

Table A-2 Technical Specifications for the Catalyst 2924 XL and Catalyst 2924C XL Switches

	Catalyst 2924 XL	Catalyst 2924C XL
<b>Environmental Operating Ranges</b>		
Operating temperature	32 to 113°F (0 to 45°C)	32 to 113°F (0 to 45°C)
Storage temperature	-4 to 149°F (-10 to 65°C)	-4 to 149°F (-10 to 65°C)
Operating humidity	10 to 85% (noncondensing)	10 to 85% (noncondensing)
Operating altitude	Up to 10,000 ft (3000 m)	Up to 10,000 ft (3000 m)
Storage altitude	Up to 15,000 ft (4570 m)	Up to 15,000 ft (4570 m)
<b>Power Requirements</b>		
AC input voltage	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz
DC input voltages	+5V ---@9A, +12V ---@0.5A	+5V ---@9A, +12V ---@0.5A
Power consumption	70W (maximum) 239 Btus per hour	70W (maximum) 239 Btus per hour
<b>Physical Dimensions</b>		
Weight	7 lb (3.2 kg)	7 lb (3.2 kg)
Dimensions (H x W x D)	1.73 x 17.5 x 9.79 in. (4.4 x 44.5 x 24.8 cm)	1.73 x 17.5 x 9.79 in. (4.4 x 44.5 x 24.8 cm)
<b>Fiber-Port Power Levels</b>		
Optical transmitter wavelength	—	1300 nm <sup>1</sup>
Optical sensibility of the receiver	—	-14 dBm <sup>2</sup>
Optical power transmitter	—	-19 to -14 dBm
Transmit	—	-19 to -14 dBm

1. nm = nanometers

2. dBm = decibel milliwatt

*Table A-3 Technical Specifications for the Catalyst 2924M XL Switches*

<b>Environmental Operating Ranges</b>	
Operating temperature	32 to 113°F (0 to 45°C)
Storage temperature	-4 to 149°F (-10 to 65°C)
Operating humidity	10 to 85% (noncondensing)
Operating altitude	Up to 10,000 ft (3000 m)
Storage altitude	Up to 15,000 ft (4570 m)
<b>Power Requirements</b>	
AC input voltage	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz
DC input voltages	+5V --- @ 12A, +12V --- @ 0.55A +5V --- @ 22A, +12V --- @ 0.75A with two modules installed
Power consumption	90W (maximum) 307 Btus per hour  170W with two modules installed 580 Btus per hour
<b>Physical Dimensions</b>	
Weight	13.5 lb (6.12 kg) 15 lb (6.8 kg) with two modules installed
Dimensions (H x W x D)	3.46 x 17.5 x 12 in. (8.8 x 44.5 x 30.5 cm)

**Table A-4** *Technical Specifications for the Catalyst 2912 LRE XL and 2924 LRE XL Switches*

<b>Environmental Operating Ranges</b>	
Operating temperature	32 to 113°F (0 to 45°C)
Storage temperature	-13 to 158°F (-25 to 70°C)
Operating humidity	10 to 85% (noncondensing)
Operating altitude	Up to 10,000 ft (3000 m)
Storage altitude	Up to 15,000 ft (4570 m)
<b>Power Requirements</b>	
AC input voltage	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz
DC input voltages	+12V --- @12A
Power consumption	150W
<b>Physical Dimensions</b>	
Weight	8.75 (4.00 kg)
Dimensions (H x W x D)	1.75 x 11.82 x 12 in (4.45 x 30.02 x 30.48 cm)

**Table A-5** *Catalyst 2900 Series XL Agency Approvals*

<b>Safety</b>	<b>EMI</b>
UL 1950/CSA 22.2 No. 950	FCC Part 15 Class A
IEC 950/EN 60950	EN 55022 Class A (CISPR 22 Class A)
AS/NZS 3260, TS001	VCCI Class A
CE	AS/NZS 3548 Class A
	BCIQ
	CE

