



## Technical Specifications

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[Table A-1](#), [Table A-2](#), [Table A-3](#), and [Table A-5](#) 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-6](#) 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 $\overline{\text{---}}$ @ 12A, +12V $\overline{\text{---}}$ @ 0.55A +5V $\overline{\text{---}}$ @ 22A, +12V $\overline{\text{---}}$ @ 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 Catalyst 2924M XL DC Switches**

<b>Environmental 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>	
Power consumption	100W
DC input voltage	–36 to –72 VDC
Wire gauge for power connection	12 or 14 AWG <sup>1</sup> (6 AWG for protective earth)
Branch circuit protection	5A
<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)

1. AWG = American Wire Gauge

**Table A-5 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>	

**Table A-5 Technical Specifications for the Catalyst 2912 LRE XL and 2924 LRE XL Switches (continued)**

AC input voltage	100 to 127/200 to 240 VAC (autoranging) 50 to 60 Hz
DC input voltages	+12V $\overline{\text{---}}$ @ 12A
Power consumption	70W
<b>Physical Dimensions</b>	
Weight	
• Catalyst 2912 LRE XL	8.75 lb (4 kg)
• Catalyst 2924 LRE XL	10.75 lb (4.88 kg)
Dimensions (H x W x D)	1.75 x 17.5 x 13.25 in (44.5 x 444.5 x 336.6 mm)

**Table A-6 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

**Table A-7 Agency Approvals (Catalyst 2924M XL DC Switch)**

<b>Safety</b>	<b>EMC</b>	<b>NEBS</b>
NOM 019	EN 50082-1 Class A	GR-1089
BSMI	BSMI	GR-63