



APPENDIX **A**

Technical Specifications

- [Environmental Ranges and Technical Specifications for the Switch](#)
- [Environmental and Technical Specifications for the Power-Supply Modules](#)

Environmental Ranges and Technical Specifications for the Switch

Table A-1 Environmental Ranges for the Switch

Environmental Ranges	
Operating temperature	See Table A-2 , Table A-3 , and Table A-4 .
Storage temperature	-13 to 158°F (-25 to 70°C).
Relative humidity	10 to 85% (noncondensing).
Operating altitude	Up to 10,000 ft (3049 m).
Storage altitude	Up to 15,000 ft (4570 m).

The operating temperature for the switch varies depending on the type of SFP module and the number of power-supply modules installed in the switch. In [Table A-2](#), [Table A-3](#), and [Table A-4](#), *Yes* means that the operating temperature range is supported, and *No* means it is not supported.

Table A-2 Operating Temperatures for the Cisco ME 3400EG-2CS-A

SFP Module	32 to 131°F (0 to 55°C)	32 to 140°F (0 to 60°C)
GLC-FE-100FX	Yes	Yes
GLC-FE-100LX	Yes	Yes
GLC-FE-100EX	Yes	Yes
GLC-FE-100ZX	Yes	Yes
GLC-FE-100BX-D	Yes	Yes
GLC-FE-100BX-U	Yes	Yes
GLC-SX-MM	Yes	No
GLC-LH-SM	Yes	No

Table A-2 *Operating Temperatures for the Cisco ME 3400EG-2CS-A (continued)*

SFP Module	32 to 131°F (0 to 55°C)	32 to 140°F (0 to 60°C)
GLC-ZX-SM	Yes	No
GLC-BX-D	Yes	No
GLC-BX-U	Yes	No
GLC-T	Yes	No
CWDM-xxxx-SFP	Yes	No
DWDM-xxxx-SFP	Yes	No
SFP-GE-S	Yes	Yes
SFP-GE-L	Yes	Yes
SFP-GE-T	Yes	Yes
CAB-SFP-50CM	Yes	Yes
No SFP module installed	Yes	Yes

Table A-3 *Operating Temperatures for the Cisco ME 3400E-24TS-M*

SFP Module	32 to 131°F (0 to 55°C) with 1 Power-Supply Module	32 to 140°F (0 to 60°C) with 1 Power-Supply Module	32 to 149°F (0 to 65°C) with 2 Power-Supply Modules
GLC-FE-100FX	Yes	Yes	Yes
GLC-FE-100LX	Yes	Yes	Yes
GLC-FE-100EX	Yes	Yes	Yes
GLC-FE-100ZX	Yes	Yes	Yes
GLC-FE-100BX-D	Yes	Yes	Yes
GLC-FE-100BX-U	Yes	Yes	Yes
GLC-SX-MM	Yes	Yes	No
GLC-LH-SM	Yes	Yes	No
GLC-ZX-SM	Yes	Yes	No
GLC-BX-D	Yes	Yes	No
GLC-BX-U	Yes	Yes	No
CWDM-xxxx-SFP	Yes	Yes	No
DWDM-xxxx-SFP	Yes	Yes	No
SFP-GE-S	Yes	Yes	Yes
SFP-GE-L	Yes	Yes	Yes
SFP-GE-T	Yes	Yes	Yes
CAB-SFP-50CM	Yes	Yes	Yes
No SFP module installed	Yes	Yes	Yes

Table A-4 *Operating Temperatures for the Cisco ME 3400EG-12CS-M*

SFP Module	32 to 131°F (0 to 55°C) with 1 Power-Supply Module	32 to 140°F (0 to 60°C) with 1 Power-Supply Module	32 to 149°F (0 to 65°C) with 2 Power-Supply Modules
GLC-FE-100FX	Yes	Yes	Yes
GLC-FE-100LX	Yes	Yes	Yes
GLC-FE-100EX	Yes	Yes	Yes
GLC-FE-100ZX	Yes	Yes	Yes
GLC-FE-100BX-D	Yes	Yes	Yes
GLC-FE-100BX-U	Yes	Yes	Yes
GLC-SX-MM	Yes	Yes	No
GLC-LH-SM	Yes	Yes	No
GLC-ZX-SM	Yes	Yes	No
GLC-BX-D	Yes	Yes	No
GLC-BX-U	Yes	Yes	No
GLC-T	Yes	Yes	No
CWDM-xxxx-SFP	Yes	Yes	No
DWDM-xxxx-SFP	Yes	Yes	No
SFP-GE-S	Yes	Yes	Yes
SFP-GE-L	Yes	Yes	Yes
SFP-GE-T	Yes	Yes	Yes
CAB-SFP-50CM	Yes	Yes	Yes
No SFP module installed	Yes	Yes	Yes

Table A-5 Technical Specifications for the Cisco ME 3400E-24TS-M

Physical Dimensions	
Weight	6.35 lb (2.89 kg) with no power-supply module.
Dimensions (H x W x D)	1.75 x 9.8 x 17.5 in. (4.45 x 24.9 x 44.5 cm).
AC-Power Requirements	
Input voltage	100 to 240 VAC \pm 10% (auto ranging), 50 to 60 Hz.
Power consumption with a single AC-power-supply module installed	Total: 137 BTUs per hour (maximum). Maximum: 40 W (maximum fan speed, all ports linked). Typical: 36 W (SFP modules installed, 12 ports linked). Minimum: 17 W (no SFP modules installed). Power rating: 120 V (0.050 KVA), 240 V (0.050 KVA).
Power consumption with 2 AC-power-supply modules installed	Total: 185 BTUs per hour (maximum). Maximum: 54 W (maximum fan speed, all ports linked). Typical: 38 W (SFP modules installed, 12 ports linked). Minimum: 22 W (no SFP modules installed). Power rating: 120 V (0.070 KVA), 240 V (0.071 KVA).
DC-Power Requirements	
Input voltage	18 to 36 VDC or 36 to 72 VDC.
Power consumption with a single DC-power-supply module installed	Total: 164 BTUs per hour (maximum). Maximum: 48 W (18 VDC input, maximum fan speed, all ports linked). Typical: 38 W (48 VDC, SFP modules installed, 12 ports linked). Minimum: 22 W (48 VDC, no SFP modules installed).
Power consumption with 2 DC-power-supply modules installed	Total: 245 BTUs per hour (maximum). Maximum: 72 W, 18 VDC input (maximum fan speed, all ports linked). Typical: 48 W (48 VDC, SFP modules installed, 12 ports linked). Minimum: 29 W (48 VDC, no SFP modules installed).

**Note**

If you install one AC- and one DC-power-supply module in a switch, the power specifications are similar to installing two DC-power-supply modules.

Table A-6 **Technical Specifications for the Cisco ME 3400EG-12CS-M**

Physical Dimensions	
Weight	8.5 lb (3.86 kg) with no power-supply module.
Dimensions (H x W x D)	1.75 x 12.5 x 17.5 in. (4.45 x 44.5 x 31.8 cm).
AC-Power Requirements	
Input voltage	100 to 240 VAC \pm 10% (auto ranging), 50 to 60 Hz.
Power consumption with a single AC-power-supply module installed	Total: 273 BTUs per hour (maximum). Maximum: 80 W (maximum fan speed, maximum power SFPs). Typical: 50 W (8 SFP modules, 8 RJ-45 ports linked). Minimum: 30 W (no SFP modules installed). Power rating: 120 V (0.086 KVA), 240 V (0.118 KVA).
Power consumption with 2 AC-power-supply modules installed	Total: 324 BTUs per hour (maximum). Maximum: 95 W (maximum fan speed, maximum power SFPs). Typical: 60 W (8 SFP modules, 8 RJ-45 ports linked). Minimum: 36 W (no SFP modules installed). Power rating: 120 V(0.108 KVA), 240 V (0.125 KVA).
DC-Power Requirements	
Input voltage	18 to 36 VDC or 36 to 72 VDC.
Power consumption with a single DC-power-supply module installed	Total: 338 BTUs per hour (maximum). Maximum: 99 W (18 VDC input, maximum fan speed, maximum power SFPs) Typical: 60 W (48 VDC, 8 SFP modules, 8 RJ-45 ports linked). Minimum: 32 W (48 VDC, no SFP modules installed).
Power consumption with 2 DC-power-supply modules installed	Total: 392 BTUs per hour (maximum). Maximum: 115 W (18 VDC input, maximum fan speed, maximum power SFPs). Typical: 70 W (48 VDC, 8 SFP modules, 8 RJ-45 ports linked). Minimum: 39 W (48 VDC, no SFP modules installed).

**Note**

If you install one AC- and one DC-power-supply module in a switch, the power specifications are similar to installing two DC-power-supply modules.

Table A-7 Technical Specifications for the Cisco ME 3400EG-2CS-A

Physical Dimensions	
Weight	3.35 lb (1.5 kg)
Dimensions (H x W x D)	1.73 x 7.2 x 10.6 in. (4.4 x 18.3 x 26.9 cm)
AC-Power Requirements	
Input voltage	100 to 240 VAC \pm 10% (auto ranging), 1 to 0.5 A, 50 to 60 Hz
Power consumption	Maximum: 102 BTUs per hour, 30 W Typical: 75 BTUs per hour, 22 W Minimum: 45 BTUs per hour, 13 W
Power rating	0.048 KVA

Environmental and Technical Specifications for the Power-Supply Modules

Table A-8 Environmental and Physical Specifications for the AC- and DC-Power-Supply Modules

Environmental Ranges	
Operating temperature	AC-power-supply: -13 to 149°F (-25 to 65°C) DC-power-supply: -40 to 149°F (-40 to 65°C)
Storage temperature	-49 to 185°F (-45 to 85°C)
Relative humidity	10 to 90% (noncondensing)
Altitude	Up to 10,000 ft (3049 m)
Physical Specifications	
Weight	AC: 1.7 lb (0.77 kg) DC: 1.8 lb (0.82 kg)
Dimensions (H x W x D)	1.57 x 3.35 x 7.52 in. (4 x 8.5 x 19.1 cm)

Table A-9 Technical Specifications for the Cisco ME340X-PWR-AC Power-Supply Module

Power Specifications	
Maximum output power	80 W
Input voltage range and frequency	100 to 240 VAC \pm 10% (auto ranging), 50 to 60 Hz
Input current	100 to 240 VAC \pm 10% (auto ranging), 1.5 to 0.7 A
Maximum output ratings	12 V @ 6.7 A
Total input BTU	490 BTUs per hour

Table A-10 *Technical Specifications for the Cisco ME340X-PWR-DC Power-Supply Module*

Power Specifications	
Maximum output power	80 W
Input voltage range	18 to 36 VDC or 36 to 72 VDC
Input current	18 to 36 V, 8 to 4 A 36 to 72 V, 4 to 2 A
Maximum output ratings	12 V @ 6.7 A
Total input BTU	490 BTUs per hour

