

PWR-100 Power Module Series

Power modules for the EDS-4000/G4000 Series



Features and Benefits

- Rotatable design for versatile installation
- Wide range of power input options for flexible deployment

Certifications



Introduction

The PWR-100 Power Module Series are designed for Moxa's EDS-4000/G4000 Series switches. The power modules allow supported switches to use 12/24/48 VDC or 110/220 VDC/VAC.

Specifications

Power Parameters

Note	<p>The EDS-4000/G4000 Series device model name and power parameters are determined by the installed PWR-100 power module.</p> <p>PWR-100-LV: -LV/-LV-T models PWR-105-HV-I: -HV/-HV-T models PWR-101-LV-BP-I: -LVA/-LVA-T models (PoE support) PWR-103-LV-VB-I: -LVB/-LVB-T models (PoE support)</p> <p>For example: EDS-G4008-T + PWR-100-LV = EDS-G4008-LV-T EDS-G4008-T + PWR-105-HV-I = EDS-G4008-HVT</p> <p>If you install a different power module, refer to the specifications of the corresponding model. For example, if you replace the power module of the EDS-G4008-LV-T with the PWR-105-HV-I, refer to the specifications of the EDS-G4008-HV-T.</p> <p>Power over Ethernet: Only the EDS-4008-4P-2GT-2GS(-T), EDS-4012-8P-4GS(-T), and EDS-G4012-8P-4QGS(-T) models support PoE. If a PoE-capable PWR-100 Series module (PWR-101-LV-BP-I, PWR-103-LV-VB-I) is installed into an EDS-4000/G4000 Series non-PoE model, PoE functionality will not be available.</p>
Connection	2 removable 4-contact terminal block(s)
Input Voltage	PWR-100-LV: 12/24/48 VDC PWR-105-HV-I: 110/220 VDC/VAC PWR-101-LV-BP-I: 48 VDC PWR-103-LV-VB-I: 12/24/48 VDC
Operating Voltage	PWR-100-LV: 9.6 to 60 VDC PWR-105-HV-I: 88 to 300 VDC, 85 to 264 VAC PWR-101-LV-BP-I: 44 to 57 VDC (> 52 VDC for PoE+ output recommended) PWR-103-LV-VB-I: 12 to 57 VDC (> 52 VDC for PoE+ output recommended)

Input Current	PWR-100-LV: 12 to 48 VDC, 1.50 to 0.40 A or 24 VDC, 0.70 A PWR-105-HV-I: 110 to 220 VAC, 50 to 60 Hz, 0.30 to 0.20 A or 110 to 220 VDC, 0.30 to 0.20 A PWR-101-LV-BP-I: 48 VDC, 5.42 A PWR-103-LV-VB-I: 12/48 VDC, 7.46/4.27 A or 24 VDC, 7.26 A
No. of Power Inputs	PWR-100-LV: Redundant dual inputs PWR-105-HV-I: Single input PWR-101-LV-BP-I: Redundant dual inputs PWR-103-LV-VB-I: Redundant dual inputs
Inrush Current (Max.)	-LV models: Max. 0.8 A @ 48 VDC (0.1 to 1 ms)
Overload Current Protection	Supported
Reverse Polarity Protection	Supported

Physical Characteristics

Dimensions	PWR-100-LV: 103 x 98 x 26.6 mm (4.06 x 3.86 x 1.02 in) PWR-105-HV-I: 103 x 98 x 39.9 mm (4.06 x 3.86 x 1.57 in) PWR-101-LV-BP-I: 103 x 98 x 39.9 mm (4.06 x 3.86 x 1.57 in) PWR-103-LV-VB-I: 103 x 98 x 39.9 mm (4.06 x 3.86 x 1.57 in)
Weight	PWR-100-LV: 142 g (0.31 lb) PWR-105-HV-I: 215 g (0.47 lb) PWR-101-LV-BP-I: 176 g (0.39 lb) PWR-103-LV-VB-I: 244 g (0.54 lb)

Environmental Limits

Operating Temperature	The operating temperature is dependent on the EDS-4000/G4000 switch the module is installed in. Please refer to the respective EDS-4000/G4000 Series datasheet for more information.
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

Safety	EN 62368-1 (LVD)
EMI	FCC Part 15 Subpart B Class A
EMC	EN 55032/35 EN 61000-6-2/-6-4
EMS	EN 61000-4-2 (ESD) Level 4 EN 61000-4-3 (RS) Level 3 EN 61000-4-4 (EFT) Level 4 EN 61000-4-5 (Surge) Level 4 EN 61000-4-6 (CS) Level 3 EN 61000-4-8 Level 4
Vibration	ISTA 1A

Warranty

Warranty Period	5 years
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Ordering Information

Model Name	Input Voltage	Operating Voltage	Supported Series
PWR-100-LV	12/24/48 VDC	9.6 to 60 VDC	EDS-4008 Series EDS-4009 Series EDS-4012 Series EDS-4014 Series EDS-G4008 Series EDS-G4012 Series EDS-G4014 Series
PWR-101-LV-BP-I	48 VDC for PoE systems	44 to 57 VDC (> 52 VDC for PoE+ output recommended)	EDS-4008 Series EDS-4012 Series EDS-G4012 Series
PWR-103-LV-VB-I	12/24/48 VDC for PoE systems	12 to 57 VDC (> 52 VDC for PoE+ output recommended)	EDS-4008 Series EDS-4012 Series EDS-G4012 Series
PWR-105-HV-I	110/220 VDC/VAC	88 to 300 VDC, 85 to 264 VAC	EDS-4008 Series EDS-4009 Series EDS-4012 Series EDS-4014 Series EDS-G4008 Series EDS-G4012 Series EDS-G4014 Series

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