

PWR-310 Power Module Series

Power Modules for RKS-G4000-PL modular managed switches

Features and Benefits

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

Certifications



Introduction

The PWR-310 Power Module Series are designed for Moxa's RKS-G4000-PL Series switches. The power modules allow supported switches to use 12/24/48 VDC or 110/220 VDC/VAC.

Specifications

Power Parameters

Connection	2 removable 4-contact terminal block(s)
Input Voltage	<p>PWR-310-HV-P: 110/220 VDC/VAC for the switch system 48 VDC for PoE systems (53 to 57 VDC is recommended for PoE+ devices)</p> <p>PWR-310-LV-P: 12/24/48 VDC for the switch system 48 VDC for PoE systems (53 to 57 VDC is recommended for PoE+ devices)</p> <p>PWR-310-HVA: 110/220 VAC for the switch system</p> <p>PWR-310-HV: 110/220 VDC/VAC for the switch system</p> <p>PWR-310-LV: 12/24/48 VDC for the switch system</p>
Operating Voltage	<p>PWR-310-LV/PWR-310-LV-P models: 10.8 to 72 VDC PWR-310-HV: 88 to 300 VDC, 85 to 264 VAC PWR-310-HVA: 85 to 264 VAC PWR-310-HV-P models: 88 to 300VDC,85 to 264 VAC PoE models: 46 to 57 VDC (for the PoE system)</p>
Input Current	<p>PWR-310-LV/PWR-310-LV-P models: Max.7.28A@12VDC Max.3.08A@24VDC Max.1.52A@48VDC</p> <p>PWR-310-HV/PWR-310-HV-P models: Max.0.67A@110VDC Max.0.33A@220VDC Max.0.79A@110VAC</p>

	<p>Max.0.35A@220VAC</p> <p>PWR-310-HVA models: Max.0.8A@110VAC Max.0.35A@220VAC</p> <p>EPS (PoE modelsonly): Max.12A@48to57VDC 48 to 57 VDC, 12 A (max.)</p>
Overload Current Protection	Supported
Reverse Polarity Protection	Supported

Physical Characteristics

Dimensions	<p>PWR-310-HV-P: 377.8 x 54.5 x 40.5 mm (14.87 x 2.15 x 1.59 in)</p> <p>PWR-310-LV-P: 377.8 x 54.5 x 40.5 mm (14.87 x 2.15 x 1.59 in)</p> <p>PWR-310-HVA: 377.8 x 54.5 x 40.5 mm (14.87 x 2.15 x 1.59 in)</p> <p>PWR-310-HV: 377.8 x 54.5 x 40.5 mm (14.87 x 2.15 x 1.59 in)</p> <p>PWR-310-LV: 377.8 x 54.5 x 40.5 mm (14.87 * 2.15 x 1.59 in)</p>
Weight	<p>PWR-310-HV-P: 845 g (1.86 lb)</p> <p>PWR-310-LV-P: 830 g (1.83 lb)</p> <p>PWR-310-HVA: 861 g (1.90 lb)</p> <p>PWR-310-HV: 854 g (1.88 lb)</p> <p>PWR-310-LV: 854 g (1.88 lb)</p>

MTBF

Time	<p>PWR-310-HV-P: 5,480,917 hrs</p> <p>PWR-310-LV-P: 12,412,949 hrs</p> <p>PWR-310-HVA: 5,536,383 hrs</p> <p>PWR-310-HV: 5,536,383 hrs</p> <p>PWR-310-LV: 12,700,198 hrs</p>
Standards	Telcordia (Bellcore), GB

Environmental Limits

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

Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty

Ordering Information

Model Name	Input Voltage	Operating Voltage	Supported Series
PWR-310-LV	12/24/48 VDC	10.8 to 72 VDC	<p>RKS-G4028-PL Series</p> <p>RKS-G4028-PL-L3 Series</p> <p>RKS-G4030-PL Series</p> <p>RKS-G4030-PL-L3 Series</p>
PWR-310-LV-P	<p>12/24/48 VDC</p> <p>48 VDC for PoE systems</p> <p>(53 to 57 VDC is recommended for PoE+ devices)</p>	<p>10.8 to 72 VDC</p> <p>(53 to 57 VDC is recommended for PoE+ devices)</p>	<p>RKS-G4028-PL Series</p> <p>RKS-G4028-PL-L3 Series</p> <p>RKS-G4030-PL Series</p> <p>RKS-G4030-PL-L3 Series</p>
PWR-310-HVA	110/220 VDC/VAC	85 to 264 VAC	<p>RKS-G4028-PL Series</p> <p>RKS-G4028-PL-L3 Series</p> <p>RKS-G4030-PL Series</p> <p>RKS-G4030-PL-L3 Series</p>

Model Name	Input Voltage	Operating Voltage	Supported Series
PWR-310-HV	110/220 VAC	88 to 300 VDC, 85 to 264 VAC	RKS-G4028-PL Series RKS-G4028-PL-L3 Series RKS-G4030-PL Series RKS-G4030-PL-L3 Series
PWR-310-HV-P	110/220 VDC/VAC 48 VDC for PoE systems (53 to 57 VDC is recommended for PoE+ devices)	88 to 300 VDC, 85 to 264 VAC (53 to 57 VDC is recommended for PoE+ devices)	RKS-G4028-PL Series RKS-G4028-PL-L3 Series RKS-G4030-PL Series RKS-G4030-PL-L3 Series

© Moxa Inc. All rights reserved. Updated Jun 11, 2026.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.