

Optical Node Series (NC)

PS4101, PS4102, PS4102E

Power Supplies for Universal VHub and Node Platforms

FEATURES

- High-efficiency power supplies designed for NC2000, VH2000, NC4000, and NH4000-UVPx platforms
- PS4101: 44–95 V_{RMS} 150 W power supply for NC4000 nodes, with 24, 12, 5, and 3.3 V_{DC} nominal outputs
- PS4102: 44–95 V_{RMS} 150 W power supply for NC2000 and NH4000-UVPx VHubs, with 24 and 5 V_{DC} nominal outputs
- PS4102E: 30–60 V_{RMS} 100 W power supply for NC2000 and NH4000-UVPx VHubs, with 24 and 5 V_{DC} nominal outputs
- Current limit, short circuit, overvoltage, and thermal shutdown protection
- Input and output voltage test points
- Hot swappable
- Monitoring via Opti-Trace[®] Software



PRODUCT OVERVIEW

The PS4101, PS4102, and PS4102E are high performance power supplies for selected ARRIS node platforms. The PS4101 is designed for use in all NC4000 nodes and the NH4000-VHP, RFP, and CNP VHubs; the PS4102 and PS4102E are used in the NC2000 Nodes and the new Universal VHub NH4000-UVP. The compact units accept AC (RMS quasi-square wave) input voltage as supplied by standard plant power systems and supports outputs at +24.0, +12.0, +5.0, and +3.3 volts DC (PS4101) or +24.0 and +5.0 volts DC (PS4102). The PS4102E is designed for 60 V_{AC} (maximum) applications with the PS4101 and P4102 operating with line voltages up to 90 V_{AC}. Features include hot swap capability, redundant operation (with a second unit), current limit, and continuous short circuit and over voltage protection. All models support monitoring via the UVHub's I²C communications bus enabling the Opti-Trace software to report model and serial number, input AC voltage, and all output DC voltage levels.

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	7.0" D x 2.44" H x 3.3" W (17.78 cm x 6.20 cm x 8.38 cm)
Weight	2.0 lbs. (0.907 kg)
Environmental	
Operating Temperature Range	-40° to +60°C (-40° to +140°F)
Storage Temperature Range	-40° to +85°C (-40° to +185°F)
Humidity	5% to 95% non-condensing
Electrical	
AC Input (PS4101/PS4102)	+44 to +95 V _{RMS} 50/60 Hz (quasi-square wave) at 6.0 A max
AC Input (PS4102E)	+30 to +60 max V _{RMS} 50/60 Hz (quasi-square wave) at 6.0 A max
Output Currents	Any combination of output power loads is acceptable up to the maximum rated power. Individual voltage currents must not exceed their stated maximums.
PS4101-00	150 W max total power
24 V	6.0 A max
12 V	1.0 A max
5 V	5.0 A max
3.3 V	3.0 A max
PS4102-00	150 W max total power
24 V	6.0 A max
5 V	5.0 A max
PS4102E-00	100 W max total power
24 V	4.1 A max
5 V	5.0 A max
General	
	Hot Swappable
	Overvoltage, over temperature and short circuit with auto reset
	6 KV minimum per SCTE
Regulatory Compliance	
	IEC/EN 60950-1; UL 60950-1; CSA C22.2 No. 60950-1 with NRTL and T-Mark certifications

ORDERING INFORMATION

Power Supply Part Number	Description
PS4101-00	44–95 V _{RMS} , 150 W power supply for NC4000 nodes and NH4000-VHP, RFP, and CNP VHubs (Connection cables sold separately.)
PS4102-00	44–95 V _{RMS} , 150 W power supply for NC2000 nodes and NH4000-UVP1/UVP2 VHubs (Connection cables sold separately.)
PS4102E-00	30–60 V _{RMS} , 100 W power supply for NC2000 nodes and NH4000-UVP1/UVP2 VHubs (Connection cables sold separately.)
Cable Part Number	Description
PSL4001	Connection cable for PS4101-00 in NC4000 and VHP/RFP/CMP VHub platforms
PSL4002	Connection cable for PS4102-00/PS4102E-00 in NC2000 node platforms
PSL4003	Connection cable for PS4102-00/PS4102E-00 in NH4000-UVP1/UVP2 platforms

NOTE:

Connection cables for power supplies must be ordered separately. One cable per power supply is required.

RELATED PRODUCTS

NH4000-UVP1/UVP2 Universal VHub	NC4000 Scalable and Fiber Deep Nodes
NC2000 Nodes	NH4000 VHP/CNP/RFP VHubs

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

Copyright Statement: © 2018 ARRIS Enterprises LLC. All rights reserved. ARRIS and the ARRIS logo are trademarks of ARRIS International plc and/or its affiliates. All other trademarks are the property of their respective owners. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS International plc ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change.

1511537-RevC_PS410x_VHub Pwr Supply

11/2018 EA-29203

Ask us about the complete Access Technologies Solutions portfolio:

Node /Hub-PS410x