

Optical Node Series (NC)

PS4101, PS4102, PS4102E

Power Supplies for Universal VHub and Node Platforms

FEATURES

- High-efficiency power supplies designed for NC/NH/VH2000 and NC/VH/NH4x00 platforms
- PS4101: 44–95 V_{RMS} 150 W power supply with 24, 12, 5, and 3.3 V_{DC} nominal outputs
- PS4102: 44–95 V_{RMS} 150 W power supply with 24 and 5 V_{DC} nominal outputs
- PS4102E: 30–60 V_{RMS} 100 W power supply 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 NH2000-VHP4, NH4000-VHP, RFP, and CNP VHubs; the PS4102 and PS4102E are used in the NC2000 Nodes, Universal VHub NH4000-UVP, and NH4600-UVP VHubs. 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, continuous short circuit, and overvoltage 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 Model Name	Description
PS4101-00	44–95 V _{RMS} , 150 W power supply for NC4000 nodes and NH2000-VHP4, NH4000-VHP, RFP, and CNP VHubs (Connection cables sold separately.) Supplies +24, +12, +5, and +3.3V _{DC}
PS4102-00	44–95 V _{RMS} , 150 W power supply for NC2000 nodes and NH4000-UVP1/UVP2 VHubs (Connection cables sold separately.) Supplies +24 and +5V _{DC} .
PS4102E-00	30–60 V _{RMS} , 100 W power supply for NC2000 nodes and NH4000-UVP1/UVP2 VHubs (Connection cables sold separately.) Supplies +24 and +5V _{DC} .
Cable Model Name	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 and NH4600-UVP1/UVP2 platforms

NOTE:

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

RELATED PRODUCTS

NH4x00-UVP1/UVP2 Universal VHub	NC4000 Scalable and Fiber Deep Nodes
NH2000 VHP VHub	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.

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