

DC Power Supply For 9000 Series Access Carrier Installation Instructions

Document Number 9000-A2-GN1L-00

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Package Checklist

Verify that your package contains the following:

- A dc power supply (see following specifications)
- A dc power I/O card
- Alarm relay connector
- Cable tie

Before You Begin

The 9000 Series Access Carrier can hold up to two power supplies. The second redundant power supply provides backup for the first.

Before you start your installation, be sure to review the following information.

CAUTION:

Refer installation of power supplies to qualified service personnel.

HANDLING PRECAUTIONS FOR STATIC-SENSITIVE DEVICES

This product is designed to protect sensitive components from damage due to electrostatic discharge (ESD) during normal operation. When performing installation procedures, however, take proper static control precautions to prevent damage to equipment. If you are not sure of the proper static control precautions, contact your nearest sales or service representative.



See the *FrameSaver SLV 9110 NNI Supplement*, Document No. 9110-A2-GB40, for technical specifications for this power supply. This manual is available at www.paradyne.com. Select *Library* → *Technical Manuals* → *FrameSaver Frame Relay Devices*.

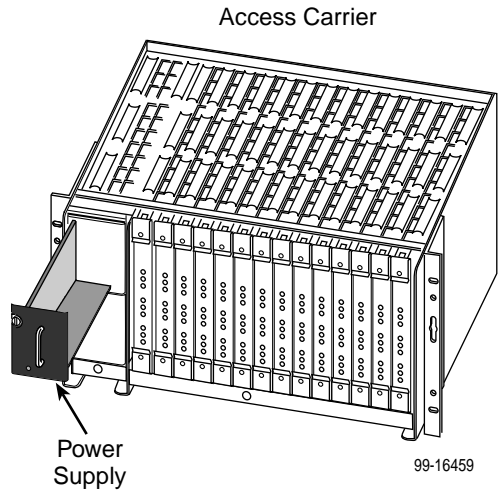
Installing the Primary Power Supply

⚠ WARNING:

Prior to installation, use a tester or voltmeter to check the terminal for earth ground. If the power source does not provide a ground connection, consult an electrician to determine another method of grounding the carrier before proceeding with the installation.

Install the primary power supply in the top slot at the front of the housing. Use the bottom slot if a second, or redundant, power supply is desired. The power I/O card at the rear of the housing delivers dc power for either one, or if needed, two power supplies. The power I/O card is marked with a label indicating the proper voltage.

1. Remove the power supply from its shipping box. Handle it only by the top and bottom edges to avoid damaging the power supply circuit card.
2. Using the power supply's attached handle, carefully slide the card into the top left slot toward the midplane until you feel it connect. Be sure that you slide the card in using the card guides provided on the housing.
3. Locate the screw in the top left corner of the power supply. Using a flat-blade screwdriver, turn the screw counterclockwise until it stops turning. Then turn the screw clockwise until it locks the power supply in place.



Installing the Redundant Power Supply

Install the redundant power supply in the bottom slot. You do not have to power off the access carrier to install the redundant power supply. The power I/O card in the rear of the housing transfers dc power for either one, or if needed, both power supplies.

1. Unscrew and remove the filler panel.
2. Remove the power supply from its shipping box. Handle it only by the top and bottom edges to avoid damaging the card.
3. At the front of the housing, use the attached handle on the power supply to carefully slide the card into the bottom left slot towards the midplane until you feel it connect. Be sure that you slide the card in using the card guides provided on the housing.
4. Locate the screw in the top left corner of the power supply. Using a flat-blade screwdriver, turn the screw counterclockwise until it stops turning. Then turn the screw clockwise until it locks the power supply in place.

Replacing a Power Supply

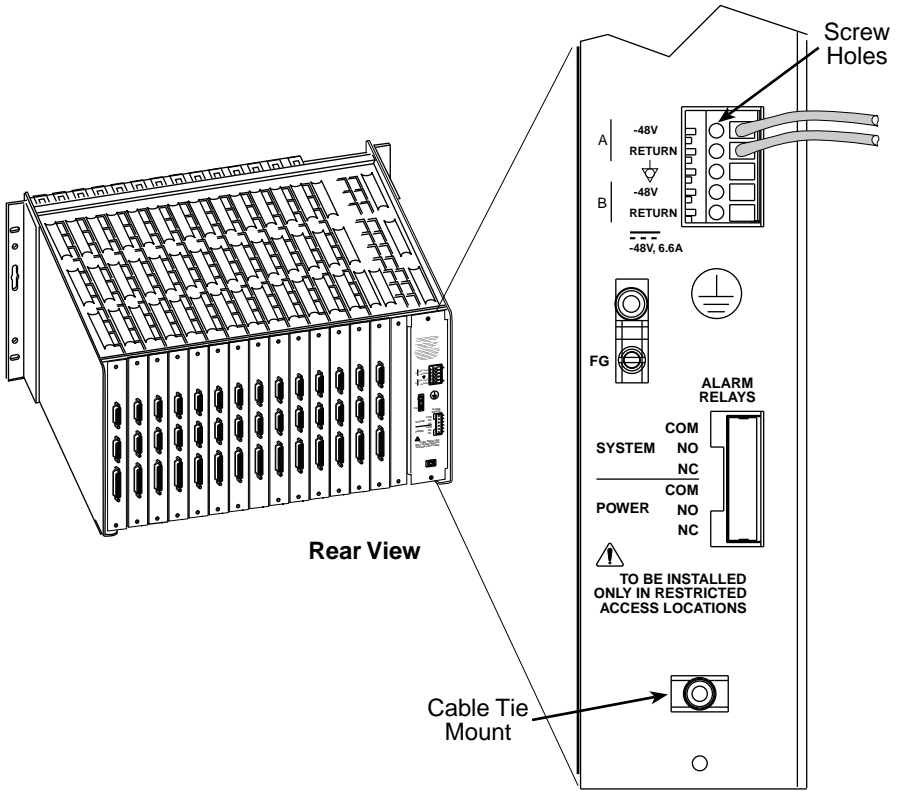
A replacement power supply can be installed in either the top or bottom slot. Disconnect power before servicing.

Power-On and Verification

WARNING:

The grounding terminal of the power supply's I/O card must be grounded. This is a safety feature. Grounding of the equipment is vital to ensure safe operation.

1. Disconnect dc power at the source.
2. Connect the copper ground terminal at the rear of the dc power I/O card to the earth ground. A 12 AWG wire is recommended.
3. Connect the dc power source to the appropriate terminals of the terminal block. The terminal block accepts 14 AWG or 18 AWG wire.
The section labeled A is for the primary power supply.
The section labeled B is for the redundant power supply.
4. Connect the grounded positive lead of the voltage source or battery to the terminal labeled **RETURN** (in either the A or B section).
5. Connect the negative -48 Vdc lead wire to the terminal labeled **-48V** (in either the A or B section).
6. Secure power cables to the cable tie mount using the cable tie that was supplied.
7. Reconnect the dc power at the source.



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Verification Checklist:

- Did the green power supply LED light? If not:
 - Check the power.
 - Check the circuit breaker.
 - Reinstall the power supply, making sure it is fully inserted into the housing.
- Did the red LED light? If so, check the voltage and polarity so that the input voltage is in the proper range.

If problems persist, contact your service representative.

Power Failure Recovery

In cases of loss and restoration of nominal voltage conditions, this product automatically restores service without manual intervention.

Warranty, Sales, Service, and Training Information

Contact your local sales representative, service representative, or distributor directly for any help needed. For additional information concerning warranty, sales, service, repair, installation, documentation, training, distributor locations, or Paradyne worldwide office locations, use one of the following methods:

- **Internet:** Visit the Paradyne World Wide Web site at **www.paradyne.com**. (Be sure to register your warranty there. Select *Service & Support* → *Warranty Registration*.)
- **Telephone:** Call our automated system to receive current information by fax or to speak with a company representative.
 - Within the U.S.A., call 1-800-870-2221
 - Outside the U.S.A., call 1-727-530-2340

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