

# **FrameSaver®**

## **NP 467**

### **Power Control Unit**

#### **Installation Guide**

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**PARADYNE®**

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## **UNPACKING AND HANDLING**

When you receive the equipment, inspect the exterior of the shipping container for signs of obvious damage. If the container is damaged, inform the local carrier that they may be subject to a claim.

As you unpack the equipment, check for physical damage and conformance with the packing list. If the equipment is damaged or does not conform to the packing list, please inform Paradyne Corporation immediately.

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## Installing the FrameSaver NP 467 Power Control Unit

The Model 467 Power Control Unit (PCU) provides Network Managers with a powerful troubleshooting tool by which endpoint DTE devices such as Routers and FRADS can be remotely commanded to reboot (reset).

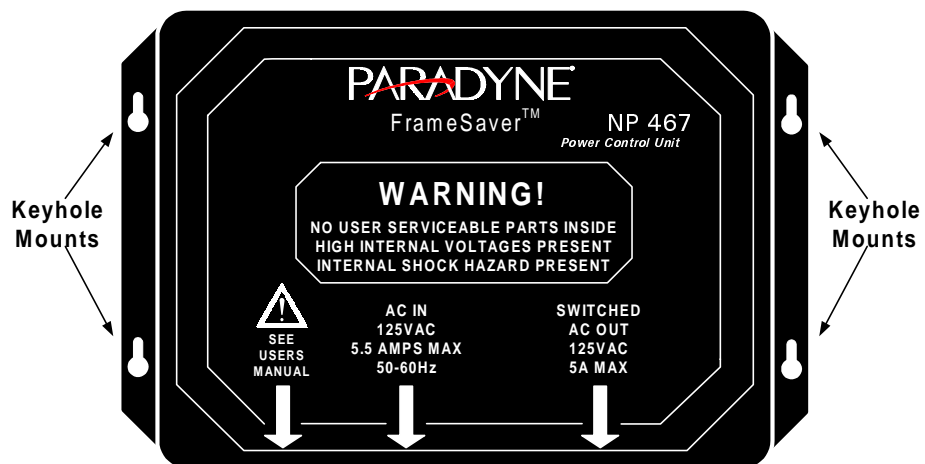
The PCU is used in conjunction with a FrameSaver NP 64, NP 64+, NP 100 or NP 120 to interrupt the AC Power supplied to the device connected to it.

The PCU responds to an operator command to interrupt power to the connected device for a selectable duration of from one (1) to 300 seconds. When commanded, the PCU disrupts both the Hot and Neutral power leads.

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### Mounting

The Power Control Unit may be wall-mounted using the four keyhole mounts provided on its base as shown in Figure 1.



**Figure 1. Model 467 Power Control Unit**

**NOTE:** Use wall fasteners appropriate for the wall's surface material, i.e. wood screws for wooden surfaces, expansion fasteners for gypsum wall board, etc.

The Power Control Unit may also be placed or mounted on a table-top or shelf near the FrameSaver.

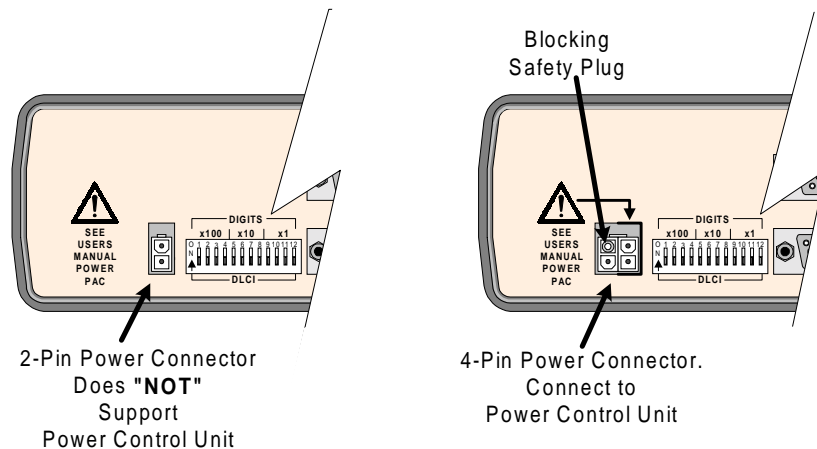
### **CAUTION**

***The Power Control Unit must not be placed where the unit or its cables may be bumped, kicked or walked on.***

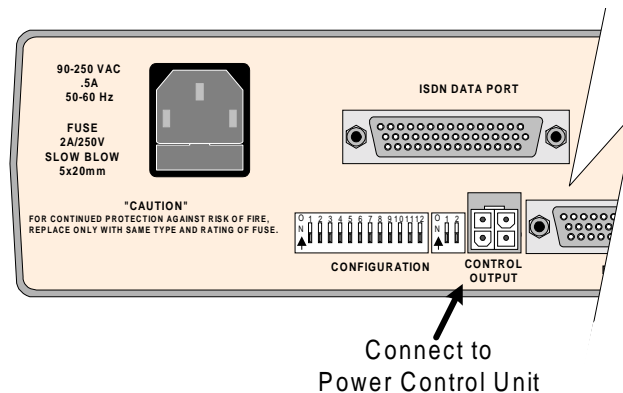
## Connections

When used with a FrameSaver NP 64 (or NP 64+), the Power Control Unit also supplies the operating power (22 VAC, 30 VA) for the NP 64, thereby replacing the wall-mount Power Pack supplied with the NP 64. The NP 100 and NP 120 units are not powered by the PCU.

To support a Power Control Unit, an NP 64 (NP 64+) must have a 4-pin Power Connector, as shown in Figure 2.



**Figure 2. NP 64 and NP 64+ Power Connector Types**



**Figure 3. NP 100 and NP 120 Power Control Unit Connection**

Connections to the Power Control Unit are made as follows:

1. If NP 64 (NP 64+) is used, disconnect and remove the existing (if any) wall-mount Power Pack.
2. Remove the Blocking Safety Plug (if installed) from the upper left pin of the 4-pin connector on the rear panel of the FrameSaver NP (as shown in Figure 2). To remove, grip the protruding end of the Plug with a small pair of pliers and pull it straight out. If tools are not available, wrap a piece of adhesive tape around the plug end to provide a better grip, and pull the plug out.

3. Connect one end of the Control / Power cable to the PCU connector marked “See Users Manual” (shown in Figure 4). Connect the other end to the NP 64 (NP 64+) Power connector or to the NP 100 or NP 120 Control Output connector.

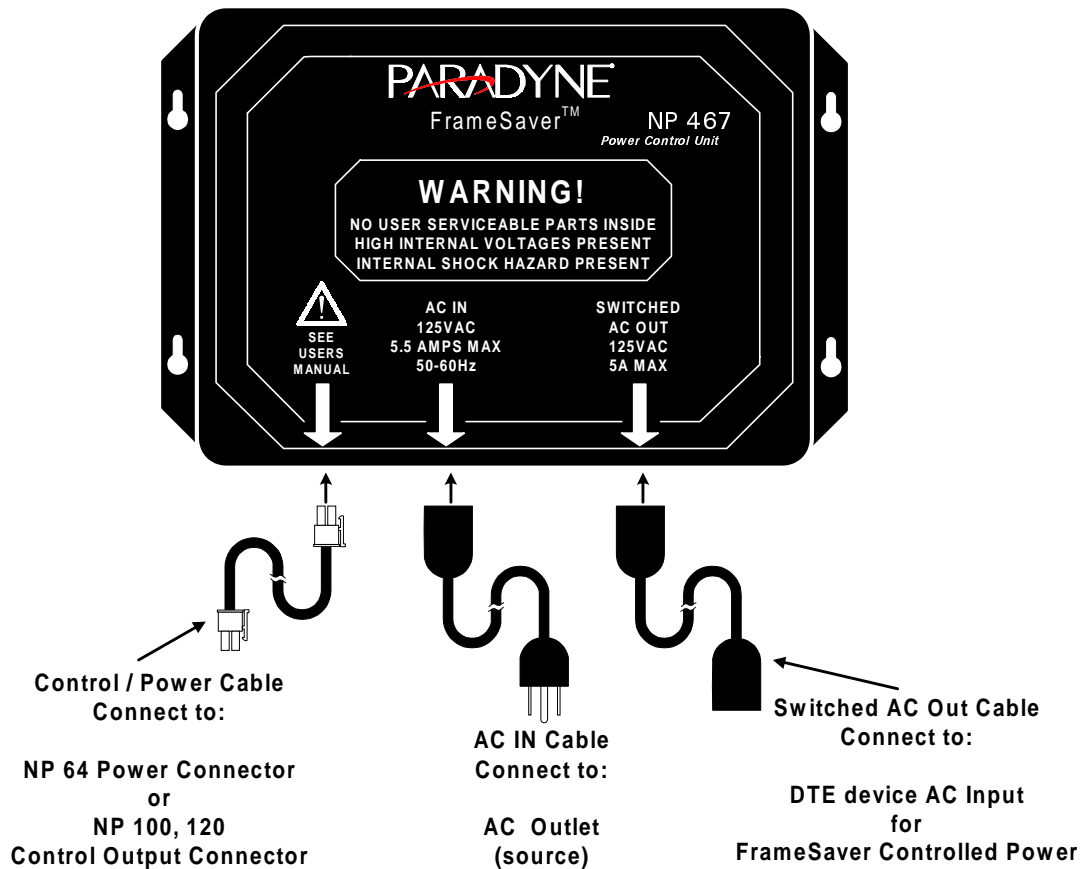
**CAUTION**

*The connectors are keyed and fit easily together when oriented correctly with the locking clip toward the top of the unit. Do not force the connectors together.*

4. Connect one end of the Switched AC Out cable to its PCU connector (shown in Figure 4). Connect the other end of this cable to the AC Input cable of the device to be controlled (usually the DTE device connected to the User Port of the FrameSaver NP).

**CAUTION**

*If used with NP 100 or NP 120, do NOT plug the power cord from the NP 100 or 120 into the AC OUT socket of the PCU.*



**Figure 4. Power Control Unit (PCU) Connections**

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## Power On

Verify that the proper voltage is present at the outlet to be used (125VAC 50-60 Hz). If the outlet voltage is correct, connect one end of the AC IN cable to its PCU connector (shown in Figure 4). Plug the other end of this cable into the AC outlet.

The device connected to the AC Out cable of the PCU should indicate it is powering up normally. If it does not, reconnect the device directly to the AC outlet. If OK now, replace the PCU.

## NP 64 Self-Test

If the PCU has been installed with an NP 64 (NP 64+), verify that the NP 64 is receiving its operating power from the PCU by observing the NP 64 Self-Test indications.

Once power is applied, the NP 64 will go through the following normal power up sequence:

- a. The POWER LED will light immediately and stay on.
- b. The READY LED may flash several times and then remain OFF while the unit performs its self-test (test duration - approx. 45 secs.)

ISDN READY LED as above, on unit with ISDN option.

READY 1 & READY 2 LEDs as above, on unit with Second DSU option.

- c. The READY LED will be ON steady after successful completion of the self-test.

ISDN READY LED as above, on unit with ISDN option.

READY 1 & READY 2 LEDs as above, on unit with Second DSU option.

- d. The DDS FAULT and FR MGMT. LEDs should *not* be flashing together.
- e. All other LED indications are not relevant to the PCU installation.

If operation looks normal, proceed to - Test Power Control Unit

If the LED indications are not as described above, reconnect the Net Path 64 wall-mount Power Pack to the NP 64 and observe the LEDs for self-test as above. If indications are now normal, replace the PCU.

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## Test Power Control Unit

With all connections completed, test the PCU operation by issuing a Reboot External Device (ReBootExt) command to the FrameSaver NP unit to which the PCU is connected. Refer to the NP 64, NP 64+, NP 100, or NP 120 User Manual for details about this command.

Observe that the PCU interrupts the AC power to the device as commanded. If power is not interrupted, replace the PCU.

If operation is OK, the Power Control Unit (PCU) installation is complete.