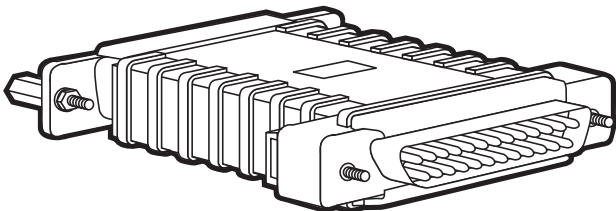


Power Supply



CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S. 24 hours, 7 A.M. Monday to midnight Friday: **877-877-BBOX**
FREE technical support, 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
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CE Notice

The CE symbol on this power supply indicates that it is in compliance with the Electromagnetic Compatibility (EMC) directive and the Low Voltage Directive (LVD) of the Union European (EU).

Trademarks Used In This Manual

UL is a registered trademark of Underwriters Laboratories Incorporated.

Any other trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

FEDERAL COMMUNICATIONS COMMISSION AND CANADIAN DEPARTMENT OF COMMUNICATIONS RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par le ministère des Communications du Canada.

NORMAS OFICIALES MEXICANAS (NOM) ELECTRICAL SAFETY STATEMENT

INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc..
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.

POWER SUPPLY

10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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1. Specifications

Compliance — CE, FCC Part 15, Class A, UL®/CSA (120-VAC Wall Mount), EN55022 Class A (Emissions), EN50082-1 (Immunity), 89/336/EEC (Declaration of Conformity—Wall Mount), 73/23/EEC (Declaration of Conformity)

Electrical Interface — RS-232

Transmission Format — Asynchronous

Data Rate — Transparent to data rate

DTE/DCE

Connection — Either male or female DB25

Connectors — (2) DB25, one male, one female

Operating

Temperature — 32 to 140°F (0 to 60°C)

Humidity Tolerance —	5 to 95% noncondensing
Maximum Altitude Tolerance —	Up to 10,000 feet (3048 m)
MTBF —	3,970,459 hours
Maximum Power Output —	+9 VDC $\pm 5\%$ @ 100 mA (≈ 945 mW)
Power Supply —	PS576: 120-VAC, 60-Hz wallmount adapter supplies 9 VDC; PS576E: 230-VAC, 50-Hz wallmount adapter supplies 9 VDC
Size —	2.2"H x 2.1"W x 0.7"D (5.6 x 5.3 x 1.8 cm)
Weight —	<1 lb. (<0.5 kg)

2. Introduction

2.1 Description

This power supply gives the proper power to any device that's interface-powered. Many laptops, notebooks and PC cards on the market supply an interface power that's well below the specifications of the interface standard. This power supply can easily bridge that gap. Call Technical Support if you're not sure whether you should use this power supply with your device.

The power supply is equipped with DB25 connectors on each end. Each provides 9 VDC to the device through the DB25 connector on pin 9. And both 120-VAC and 230-VAC models are available.

2.2 Features

- Solves low-power interface problems.
- Supplies 9 VDC to pin 9.
- DB25 male to DB25 female connectors.
- LED shows power status.
- Very thin case (0.7") for closely spaced computer ports.
- 120-VAC or 230-VAC models available.
- Nothing to configure—just plug it in.

3. Installation

1. Disconnect the device from the low-power RS-232 device.
2. Connect the power supply into the DB25 connector of the device attached.
3. Connect the other end of the power supply into the low-power RS-232 device. The application should look similar to the diagram in Figure 1.

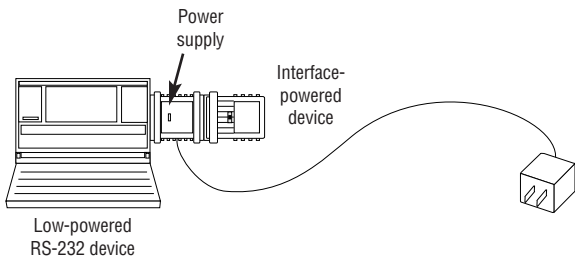


Figure 1. Connecting the power supply.

4. Plug the wall-adapter into the AC wall jack

5. Connect the interface-powered device as described in the manual for the device.

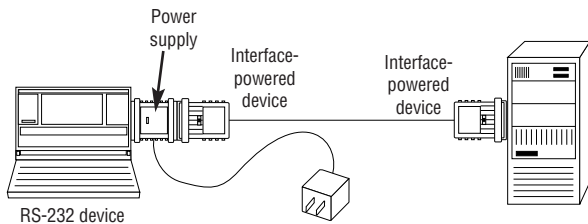


Figure 2. Powering up an interface-powered device (in this case, a short-haul modem) with the power supply.

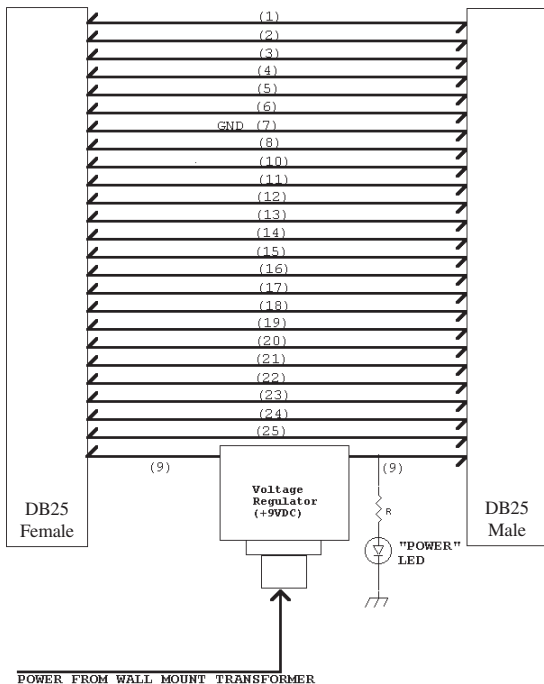
Appendix A. Pin Assignments

NOTE

This power supply applies power to pin 9 (DCV+) only. All other signals are passed through unmodified from end to end. Signal names are provided here to more closely represent the RS-232 standard (see **Appendix B**).

SIGNAL/PIN #		SIGNAL/PIN #
Secondary Transmit Data	14 —	1 (FG) Frame Ground
Transmit Clock	15 —	2 (TD) Transmit Data
Secondary Receive Clock	16 —	3 (RD) Receive Data
Receive Clock	17 —	4 (RTS) Request to Send
Local Loopback	18 —	5 (CTS) Clear to Send
Local Loopback	19 —	6 (DSR) Data Set Ready
Request to Send (Return)	20 —	7 (SG) Signal Ground
Data Terminal Ready (DTR)	21 —	8 (CD) Carrier Data
Remote Loopback	22 —	9 (DCV+) DC Test Voltage*
Data Signal Rate Selector	23 —	10 (DCV-) DC Test Voltage
Transmit Clock	24 —	11 Unassigned
Test Mode	25 —	12 Secondary Rcvd Line
		13 Secondary Clear to Send

Appendix B. Block Diagram





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