Power Supply and Battery Charger

ELK-P624

6, 12, or 24 Volt DC

APPLICATION:
The ELK-P624 is engineered to be a trouble-free general-purpose power supply/charger. It features automatic reset "fuselss" overload protection which eliminates service calls to replace blown fuses. The output voltage is easily selected with easy to change mini-jumpers.

FEATURES:
• Auto-Resetting Overload Protection.
• Visual AC and DC Power Indicator LEDs.
• Selectable 6, 12, or 24Vdc Regulated Output
• AC and DC Surge Suppression.
• Built-In Battery Charging Circuit.
• Lifetime Limited Warranty, call for details

SPECIFICATIONS:
• Size: 3" X 3" (76.2mm X 76.2mm ).
• Standby Battery Capacity: 1.2 to 10Ah.
• Auto-Reset Overload Protection: 2.5 Amps.

6V Setting:
• Transformer Input: 12Vac, 40VA.
• Continuous Output Current: 1.2A.

12V Setting:
• Transformer Input: 16.5Vac, 40VA.
• Continuous Output Current: 1.0A.

24V Setting:
• Transformer Input: 24Vac, 40VA.
• Continuous Output Current: 800mA.

** Higher output current (up to 2.5 Amps) may be drawn for a short time provided a fully charged battery is connected.

For more information contact your local Distributor or:
ELK PRODUCTS,INC 828-397-4200 FAX 828-397-4415
http://www.elkproducts.com Email: info@elkproducts.com
 PO Box 100  •  Hwy. 70W  •  Hildebran, NC 28637  •  USA

Instructions Printed On Inside
APPLICATIONS AND WIRING DIAGRAMS

AC Transformer Input Terminals

IMPORTANT! Connect proper Transformer according to desired output voltage!

For 6V DC Output, connect a 12V, 40VA Transformer
For 12V DC Output, connect a 16.5V, 40VA Transformer
For 24V DC Output, connect a 24V, 40VA Transformer

DC Output Terminals
Connect device(s) to be powered. Observe + / - polarity!

LED Status Indicators

(Green) (Red) AC DC Indication
ON / ON AC input is on / DC output is on. Normal.
OFF / ON AC input is off / DC output is from Battery only. Step down Transformer is defective or unplugged, or the AC outlet is off. Battery will eventually discharge. Try reducing some of the device load.
ON / OFF AC input is on / DC output is off. The auto-reset overload protector is likely open due to an overload short circuit. Try reducing some of the device load.
OFF / OFF AC input is off / DC output is off.

Battery Wires
Connect to rechargeable Lead-acid battery 1.2 Ah up to 10 Ah (Red = "+", Black = "")

Caution! Heatsink may be Hot!

Auto-Reset (Fuseless) Overload Protector - 2.5 Amp
Automatically resets when short or overload is removed.

6V Powered Device
1.2A Maximum Continuous Current

12V Powered Device
1.0A Maximum Continuous Current

24V Powered Device
800mA Maximum Continuous Current

6 VOLT MODE
For 6 volt output, remove the small black mini-jumper from the header pins marked JP1 and JP2. (See Figure 1 above) Then connect a 12Vac, 40VA transformer to the AC TRANSFORMER terminals and connect a 6V battery to the red (+) and black (-) battery wires. The mini-jumper may be discarded or stored for later use by placing one side onto a single header pin.

12 VOLT MODE
For 12 volt output, place the small black mini-jumper on the header pins marked JP1. (See Figure 1 above) Make certain that header pin JP2 is vacant. Connect a 16.5 Vac, 40VA transformer to the AC TRANSFORMER terminals and connect a 12V battery to the red (+) and black (-) battery wires.

24 VOLT MODE
For 24 volt output, place the small black mini-jumper on the header pins marked JP2. (See Figure 1 above) Connect a 24 Vac, 40VA transformer to the AC TRANSFORMER terminals and connect a 24V battery to the red (+) and black (-) battery wires.