

## VPB-260 BATTERY BACK-UP SUPPLY

### INTRODUCTION

These instructions contain the specifications and information necessary to install, operate, and maintain the VPB-260, Battery Back-up Power Supply.

### SPECIFICATIONS

The VPB-260 provides a battery source to permit system operation in the event of an AC power failure.

### Features

- 12 and 24 volt DC outputs
- Outputs fused at 3 amps
- AC input fuse protected
- Power on LED indication
- Full current limiting on battery charger
- Long life Gel Cell batteries
- Battery test switch with light indication

### Capacity

Table 1 shows the approximate times for a fully charged supply to reach 90% voltage under different load conditions.

**NOTE:** All electronic key systems will begin to operate intermittently below a certain input voltage. Typically reliable operation will be maintained to 90% of full voltage.

<b>Table 1</b>	
<b>Discharge Current vs. Time</b>	
<u>Current</u>	<u>Time</u>
2.5 Amps	1 hr. 40 min.
1 Amp	4 hours
.5 Amp	10 hours
.325 Amp	20 hours



### Applications

The VPB-260 is known to be compatible with the following systems:

#### Telephone Systems:

- |                        |  |
|------------------------|--|
| <b>CMX</b>             | CKS-308<br>CKS-616<br>CKS-408/816/1224   |
| <b>Gaitronics</b>      | Cohort 616 (see Application Note)  |
| <b>Sanyo</b>           | EKS 6120 (reverse 12V & 24V leads)   |
| <b>Tie</b>             | EK-612<br>Modkey 16 (WA-260T may be required)<br>Modkey 1032<br>DS-01<br>Onyx VS                         |
| <b>Executone</b>       | Encore CX 512<br>Encore CX 816   |
| <b>Premier Telecom</b> | 1A2  |
| <b>Siemens Telplus</b> | Telplus 816<br>Telplus 1224  |
| <b>Trillium</b>        | Panther 612 (WA-260P required)<br>Panther 1032 (WA-260P required)<br>Panther II (820) (WA-260P required) |
| <b>Vodavi</b>          | Starplus 308EX<br>Starplus 616EX<br>Starplus 1224EX  |

#### Valcom Page Controls

V-2001, V-2001A, V-2003, V-2003A, V-2003HF, V-2003AHF, V-2006, V-2006A, V-2006HF, V-2006AHF, V-2901, V-2901A, V-2904, V-2920, V-2924, V-2924A

### Dimensions/Weight

- 9.25" H x 7.50" W x 5.25" D  
(23.5cm H x 19.0cm W x 13.3cm D)
- 19 lbs (8.6 kg)

### Specifications

- Output 24 Vdc and 12 Vdc fused at 3 amps each
- Current limited, constant voltage charger
- Gel Cell no maintenance type batteries
- Typical battery life is 3-5 years

### Power Requirements

- Input 105-120 Vac, 60 Hz

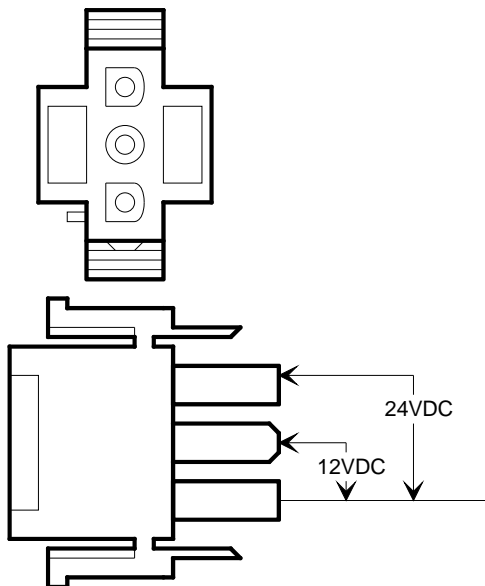
### Environment

- Temperature 0 to 50° C (32 to 122° F)
- Humidity 0 to 85% non-precipitating

### DESIGN

The VPB-260 is a fully filtered battery back-up power supply. The input and both outputs are fuse protected. The charger circuit output is floating with respect to ground. The charging circuit provides a constant voltage and is current limited to 1.5 amps to the two Gel Cells. There is a "power on" LED that is illuminated when the supply is connected to the AC power source. There is also a test button for testing the batteries. When pressing this button, the LED will illuminate if the batteries are fully charged.

Figure 1: Low Voltage Plug Outputs



### INSTALLATION

#### Mounting

Using the appropriate hardware, mount the VPB-260 within 6 feet of an AC receptacle.

#### Connections

Unplug the KSU power cord. Consult the installation manual of the key system for the location of the input socket for the battery backup supply. Plug the low voltage power cord of the auxiliary power system into the socket.

**NOTE: The plug is polarized and will only fit one way.** After making sure that the plug is seated in the socket, plug in the AC power cords. **Both the AC power cord for the VPB-260 and the power cord for the KSU should use the same AC outlet.** Figure 1 shows low voltage plug outputs.

**NOTE: Time to reach a full charge after initial installation or after a deep discharge is approximately 9 hours.**

### MAINTENANCE

In order to insure proper operation of the battery supply, the following operation should be performed once a month.

Unplug the key system from the AC power receptacle to allow operation from the batteries for 15 minutes. Plug key system power cord into AC outlet.

### TECHNICAL ASSISTANCE

When trouble is reported, verify that AC power is being supplied to the unit and there are no blown fuses. To test the batteries for full charge, unplug the VPB-260 and press the button marked test on the side of the unit. The LED lights when batteries are okay. Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and a test set available and be calling from the job site. Call (540) 563-2000 and press 1 for Technical Support, or visit our website at <http://www.valcom.com>.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and the nature of the problem. Send the unit to:

**Valcom, Inc.**  
**Repair and Return Dept.**  
**5614 Hollins Road**  
**Roanoke, VA 24019-5056**

**VALCOM LIMITED WARRANTY**

Valcom, Inc. warrants its products only to the original purchaser, for its own use, to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. This Limited Warranty obligation shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

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2. the defect is not the result of damage, misuse or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge plus parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Valcom are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

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