

# POWER SOURCES

Ready-To-Install Power Supplies and Power Accessories

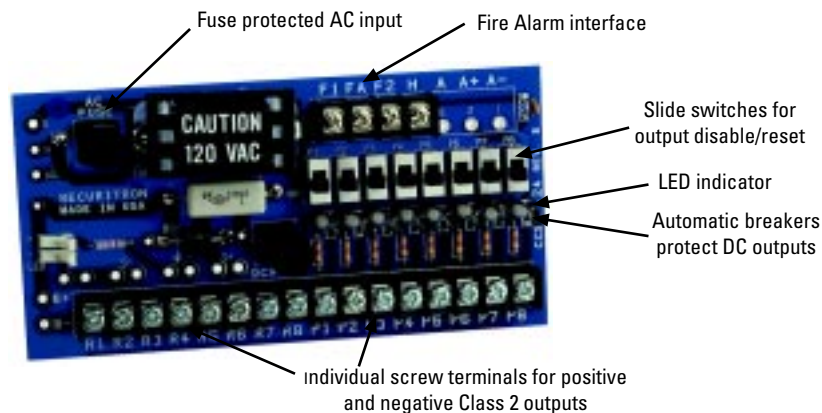


## OVERVIEW

Securitron manufactures a variety of outstanding products designed to supply and monitor 12 or 24 Volts for the operation of security and safety equipment. The **BPS Series DC** Power Supplies include battery charging capability with capacities from one to 15 Amps. The **BACS Series** provides high capacity **12 and 24 volts AC** power. The model **PSM Power Supply Monitor** functions as an alarm system for your BPS series supply and our **plug-in DC** supplies and potted **bridge rectifier** fit into simpler applications.

## BPS SERIES: CLASS 2 WITH OR WITHOUT BATTERIES

All models are UL listed and incorporate integral battery charging capability which keeps the sealed lead acid gel/cell at full charge for instantaneous stand-by power in case of line voltage failure. All models in the series are **Class 2** rated by UL which means that output wiring need not be run in conduit. The **BPS-12-1** and **BPS-24-1** are one amp units that incorporate a fused AC input and a regulated DC output. A 2.5 Amp current limiting **automatic breaker** protects the stand-by batteries from driving into a short



The multi-featured CCS board allows easy hook-up and control for the BPS series 2 amp or greater power supplies.



BPS Series Power Supply shown with optional Battery Pack

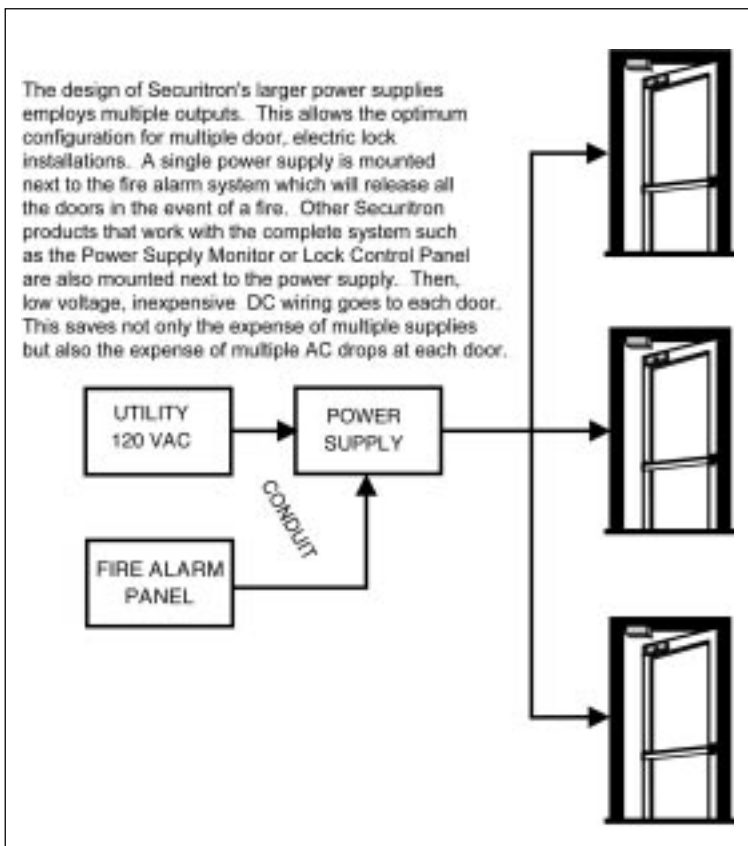
circuit. Plus, in the event of a DC short, the supply's regulator will go into thermal cut-off, switching off the output. The power supply enclosure is sized large enough to include at least two optional four amp-hour batteries and the unit can charge up to a **20 AH** pack (batteries mounted externally).

### BPS SERIES WITH CCS CONTROL MODULE

For larger applications and installations where **multiple devices** are being powered, Securitron offers the **higher-amperage** BPS Power Supply Series with integral CCS-4 or CCS-8 Power Control Module. The CCS board provides a fused line voltage input and **four or eight DC outputs** on separate **UL Class 2 Listed** current limited automatic circuit breakers. Each circuit can be **individually turned on and off** via a slide switch and the **powered status** of each is shown by an LED. There is no need for extra AC wiring of additional dedicated supplies in a multiple zone device installation and in the event of a DC short, the **problem is confined** to the zone in difficulty. The BPS continues to power all other stations, uninterrupted by the faulty component. An LED indicator light on the front cover illuminates when the power supply module is in operation and the unit will charge up to **20 AH** battery packs (for larger packs, consult the factory).

### ADDING ADDITIONAL CLASS 2 OUTPUTS AND FIRE ALARM INTERFACE

While BPS series supplies are delivered with four or eight outputs depending on the model, the **CCB-8 "slave" board** may be optionally ordered to add eight additional Class 2 outputs. The more boards you add, the more outputs become available. Also, for **added safety**, the CCS-8 module has **emergency release terminals**. These can be broken by an external switch opening such as a relay controlled by the fire alarm system. This will automatically release all the devices being driven by the supply.



### THE POWER SUPPLY MONITOR

For critical applications, Securitron offers the remarkable Power Supply Monitor as an accessory for its larger **DC** supplies. Available in 12 or 24 volt versions, the PSM can operate with all BPS series supplies with capacities of 2 Amps or more. The Power Supply Monitor functions as an **alarm system for the supply** as it monitors all key functions and reports any trouble.

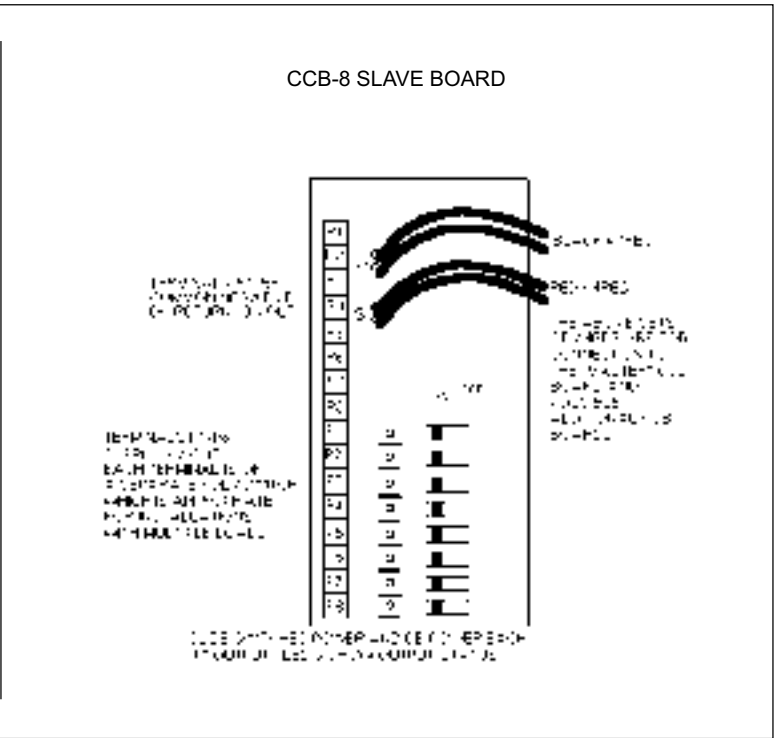
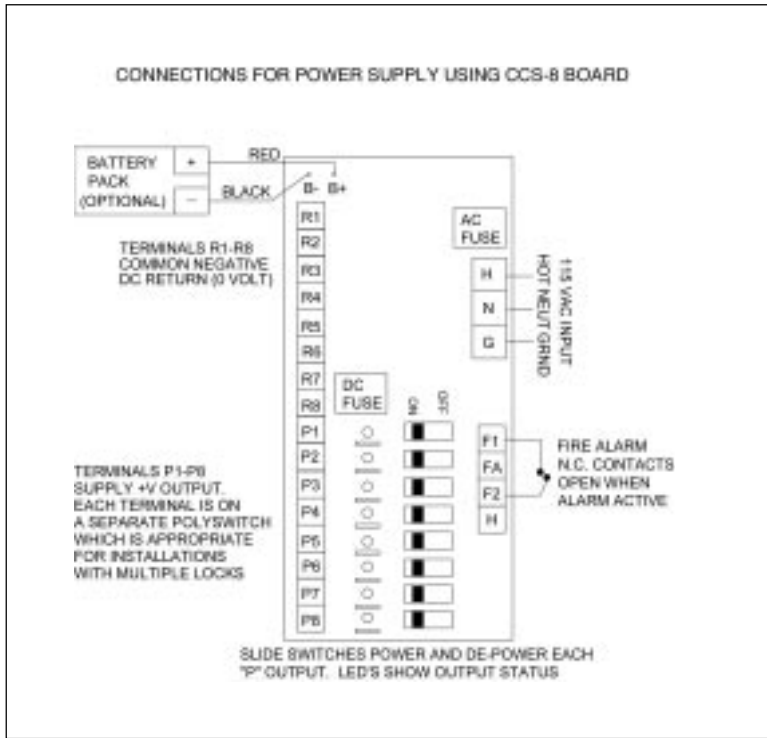


The **output voltage** is continuously read to insure that it remains within tight limits which are necessary for proper float charging of the battery pack. A high or low variance is separately signaled by audio/visual latching alarms at the PSM enclosure and simultaneous dry contact switching for remote notification.

The PSM also **checks the battery pack** by taking it off charge three times a day and subjecting it to an extended load test. Failure is reported so that the pack may be replaced and naturally, the test is immediately terminated in the event of an actual power failure so that the load will continue to operate.

### BPS SERIES SPECIFICATIONS

| 12 VDC     | Capacity | 24 VDC    | Capacity | Outputs | Cabinet Size   |
|------------|----------|-----------|----------|---------|----------------|
| BPS-12-1   | 1 A      | BPS-24-1  | 1 A      | 1       | 12" X 9" X 4"  |
| BPS-12-3   | 3 A      | BPS-24-2  | 2 A      | 4       | 14" X 14" X 4" |
| BPS-14-4.5 | 4.5 A    | BPS-24-3  | 3 A      | 4       | 14" X 14" X 4" |
| BPS-12-6   | 6 A      | BPS-24-4  | 4 A      | 8       | 15" X 18" X 6" |
| BPS-12-9   | 9 A      | BPS-24-6  | 6 A      | 8       | 15" X 18" X 6" |
| BPS-12-15  | 15 A     | BPS-24-10 | 10 A     | 8       | 15" X 18" X 6" |



Another important PSM report is whenever the **batteries have switched in** to the load. This provides vital warning that the load will continue to operate for only the standby duration of the pack. The batteries will switch in not only from an obvious facility power failure, but from a local AC breaker trip or a failure of the DC output of the supply. The PSM report always keeps your system working.

**24-10** supplies **10 Amps of 24 VAC** power. The BACS series employs the same multiple zone control concept as the BPS series as it includes nearly identical control boards (part number **CCS-8A**), which provide eight automatically breakered outputs with individual control switches and LED's. As with the BPS series, additional "slave" boards may be ordered to add eight extra zones (part number **CCB-8A**).

### PM SERIES: AN ECONOMY POWER SOLUTION WITH BATTERY BACKUP



Securitron's **PM-12** and **PM-24** power supplies are similar to the BPS-12-1 and BPS-24-1 units except they employ separate **plug-in transformers** which interconnect with a circuit board housed in a steel enclosure. Since the transformer plugs into a wall socket, installation **does not require the services of an electrician**. The PM units also feature regulated, adjustable power with integral sealed lead acid/gel cell battery charging capability while meeting **Class 2** electrical requirements.

### SIMPLE, UL LISTED DC POWER: PLUG-IN DC FILTERED SUPPLY

We offer these hard-to-find **DC** units in two versions: **12 volts @ 700 mA** maximum capacity (model **PSP-12**) and **24 volts @ 350 mA** maximum capacity (model **PSP-24**). They feature an **internal thermal fuse** and are **UL** and **CSA** listed. A 16 ft. output cable is included. They are ideal for powering a wide range of DC devices.



### AC POWER SOLUTIONS: BRIDGE RECTIFIER

The model **BR-7** bridge rectifier will convert an AC input, like our



TP Series transformer, to full wave rectified DC output with a maximum **7 Amp capacity**. It's manufactured in a 1" cube **potted** package with 18" color coded flying leads. This full insulation allows it to be field wired between a transformer and DC load device without concern for short circuits.

### THE UL LISTED BACS SERIES: HIGH CAPACITY AND MULTI-ZONE

Primarily intended for powering CCTV cameras, Securitron's **BACS-12-20** supplies **20 Amps of 12 VAC** power and the model **BACS-**

**TECHNICAL DATA**

**BACS Series AC Power Supplies:**

BACS-12-20: 12 VAC Output, 20A capacity  
 BACS-24-10: 24 VAC Output, 10A capacity  
 Power Input: 115 VAC (220 VAC available)  
 Cabinet Size: 12" x 18" x 24"  
 UL Listed: UL E178848

**PM Series Power Supplies:**

PM-12: 12 volt, 1A capacity  
 PM-24: 24 volt, 1A capacity  
 Power input: 115 VAC (transformer supplied)  
 Enclosure: 6" x 8" x 2 7/8"  
 UL Listed

**PSM Power Supply Monitor:**

PSM-12: for 12 VDC Supply 3A or greater  
 PSM-24: for 24 VDC Supply 2A or greater  
 Power Input: VDC power from corresponding power supply  
 Cabinet Size: 12" x 7-1/4" x 3-1/4"

**PSP Plug-in Power Supply:**

PSP-12: 12 VDC, 700 mA output  
 PSP-24: 24 VDC, 350 mA output  
 Power Input: 115 VAC  
 Size: 2-1/4" x 2-1/4" x 2-1/2" with 16" wire leads  
 UL Listed: UL E8297

**BR-7 Bridge Rectifier:**

BR-7: Bridge Rectifier for 12 or 24 VAC  
 Capacity: 7A input/output  
 Size: 1" x 1" x 1" with color coded wires 18" long

**BPS Series Listings & Approvals:**

Underwriter's Laboratories: SA6635 and BP7041  
 Underwriter's Laboratories of Canada: CMS140, SA6635 & BP7041  
 California State Fire Marshall: 3774-0923:102 and 3774-0923:103  
 City of New York-Dept. of Buildings: MEA251-95E and MEA254-95E  
 City of Cleveland-Board of Building  
 Standards and Building Appeals: S-5-89  
 US Veteran's Administration: M.P.3 Part III  
 US Department of Defense: Listed

**ORDERING INFORMATION**

**BPS Series DC Power Supplies:**

See specification chart on the previous page for part numbers, capacity, outputs and cabinet size. Power input: For 220 VAC input, add "H" to part number. (i.e. BPSH-24-3)

| Part Number | Description                     | Price    |
|-------------|---------------------------------|----------|
| BPS-12-1    | Power Supply 12VDC-1 Amp        | \$180.00 |
| BPS-12-3    | Power Supply 12VDC-3 Amp        | \$380.00 |
| BPS-12-45   | Power Supply 12VDC-4.5 Amp      | \$580.00 |
| BPS-12-6    | Power Supply 12VDC-6 Amp        | \$640.00 |
| BPS-12-9    | Power Supply 12VDC-9 Amp        | \$780.00 |
| BPS-12-15   | Power Supply 12VDC-15 Amp       | \$960.00 |
| BPS-24-1    | Power Supply 24VDC-1 Amp        | \$180.00 |
| BPS-24-2    | Power Supply 24VDC-2 Amp        | \$380.00 |
| BPS-24-3    | Power Supply 24VDC-3 Amp        | \$580.00 |
| BPS-24-4    | Power Supply 24VDC-4 Amp        | \$640.00 |
| BPS-24-6    | Power Supply 24VDC-6 Amp        | \$780.00 |
| BPS-24-10   | Power Supply 24VDC-10 Amp       | \$960.00 |
| BPSH-12-1   | Power Supply 12VDC-1 Amp 220VAC | \$200.00 |
| BPSH-12-3   | Power Supply 12VDC-3 Amp 220VAC | \$400.00 |

| Part Number | Description   | Price    |
|-------------|---|----------|
| BPSH-12-45  | Power Supply 12VDC-4.5 Amp 220VAC                       | \$600.00 |
| BPSH-12-6   | Power Supply 12VDC-6 Amp 220VAC                         | \$660.00 |
| BPSH-12-9   | Power Supply 12VDC-9 Amp 220VAC                         | \$800.00 |
| BPSH-12-15  | Power Supply 12VDC-15 Amp 220VAC                        | \$980.00 |
| BPSH-24-1   | Power Supply 24VDC-1 AMP 220VAC                         | \$200.00 |
| BPSH-24-2   | Power Supply 24VDC-2 Amp 220VAC                         | \$400.00 |
| BPSH-24-3   | Power Supply 24VDC-3 Amp 220VAC                         | \$600.00 |
| BPSH-24-4   | Power Supply 24VDC-4 Amp 220VAC                         | \$660.00 |
| BPSH-24-6   | Power Supply 24VDC-6 Amp 220VAC                         | \$800.00 |
| BPSH-24-10  | Power Supply 24VDC-10 Amp 220VAC                        | \$980.00 |
| CCB-8-12    | Control Board 12VDC 8 Fused Outputs                     | \$100.00 |
| CCB-8-24    | Control Board 24VDC 8 Fused Outputs                     | \$100.00 |
| B-12-4      | Battery 12 VDC 4 Amp Hour                               | \$45.00  |
| B-24-4      | Battery 24VDC 4 Amp Hour                                | \$100.00 |
| PSM-12      | Power Supply Monitor 12VDC                              | \$500.00 |
| PSM-24      | Power Supply Monitor 24VDC                              | \$500.00 |
| PM-12-1     | Plug-In Power Module 12VDC-1 Amp w/ Charger & Enclosure | \$120.00 |
| PM-24-1     | Plug-In Power Module 24VDC-1 Amp w/ Charger & Enclosure | \$120.00 |
| PSP-12      | Power Supply Plug-In 12VDC - 700 mA                     | \$35.00  |
| PSP-24      | Power Supply Plug-In 24VDC - 350 mA                     | \$35.00  |
| TP-12-3     | Transformer Plug-In 12VAC-3 Amp                         | \$30.00  |
| TP-24-2     | Transformer Plug-In 24VAC-1.5 Amp                       | \$30.00  |
| BR-7        | Bridge Rectifier 7A                                     | \$25.00  |
| BACS-12-20  | Power Supply 12VAC - 20A                                | \$500.00 |
| BACS-24-10  | Power Supply 24VAC - 10A                                | \$500.00 |
| BACSH-12-20 | Power Supply 12VAC - 20A 220VAC                         | \$520.00 |
| BACSH-24-10 | Power Supply 24VAC - 10A 220VAC                         | \$520.00 |

