



REGULATED AND HEAVY DUTY UNREGULATED DC POWER SUPPLIES

PS Series,
PS-RK, RPS24-05,
TPS24-05, TS242



PS12-10 PS-M12



PS24-075 RPS24-05 TPS24-05



PS24-20



(Front View)



(Back View)

PS24-2R (Shown)
PS24-50A PS24-4R



TS242

FEATURES

- Choice of 10 Models in 12 and 24 Volt Regulated and Heavy-Duty Unregulated Versions
- Engineered Specifically to Meet the Application Requirements of the Commercial Sound Communications Industries, and Home Electronics
- Compact Size is Ideal for Shelf, Wall, or Rack Mounting
- Optional Rack Mount Accessory Shelf (Model PS-RK) Allows Convenient Installation in 19" W Equipment Cabinets

APPLICATIONS

Utilize Atlas Sound power supplies for a wide variety of commercial sound and communications applications in industrial, institutional, service, and educational facilities. Compact series includes 12 and 24 VDC models for use where small, economical power supplies are required. To meet the specific application needs of the sound contractor, both regulated and unregulated versions are available:

Unregulated Models. Six heavy-duty units of ¾ to 10 amp service are offered for applications that require a high current DC supply including many types of telephone, annunciator and industrial paging systems, and installations with large numbers of relays.

Regulated Models. Four assemblies of ½ to 4 amp service are provided for applications that require excellent regulation and extremely low ripple including transistorized and solid state control equipment and alarm/warning systems.

GENERAL DESCRIPTION

PS / RPS / TPS Series. This extensive selection of power supplies has been developed to perform under the application requirements and operational parameters of commonly used ranges in communications equipment. To guard against excessive line currents, all models are fused or circuit-breaker protected in the primary. Most units also contain fast-acting fuses located at the output to protect circuitry from accidental overload. Barrier strip output terminals allow for wire-insertion ease and protect against shorted connections.

Compact size and light weight lend themselves to convenient installation almost anywhere. Wall mounting is easily achieved via mounting ears on the 6¾" L models or with keyhole slots in the chassis of the larger 13¾" L models. In addition, four rubber feet are provided on the 13¾" L models for secure shelf mounting. For attractive installation in 19" W equipment cabinets, an optional factory-assembled, black textured rack mount accessory shelf (Model PS-RK) is offered to support four 6¾" L units or one 13¾" L unit. Rack shelf comes complete with front viewing hole for the power indicator light of the 13¾" L models and knock-outs to accommodate line cords.

Model PS-12-10. Compact 12 VDC (1 Amp) power supply designed for use with up to 12 switched WhisperTouch® volume controls.

Model PS-M12. Compact 12 VDC (200mA) power supply has a ¼" mini plug for direct connection to the M-1CB4A connector block (powers up to four F-1 infrared flashers) or for use with up to three switched WhisperTouch volume controls.

Model TS-242. UL Listed unit is used for a variety of applications that do not require a regulated supply. Model includes a 117 VAC unswitched outlet, neon pilot lamp, barrier-type terminals, and perforated grille for ventilation. Finished in black epoxy. Unit can be rack mounted using shelf Model PS-RK.

All models are finished in black epoxy; larger units also include a cover finished in textured black epoxy. Assemblies include a 6' heavy-duty AC power cord and are completely enclosed with the exception of the larger 13¾" L units which have a perforated grille for proper ventilation.

Specifications subject to change without notice



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FIVE

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PS12-10 PS-M12



PS24-075
RPS24-05 TPS24-05



PS24-20 PS24-1R



PS24-50A
PS24-2R PS24-4R



TS242

HEAVY DUTY UNREGULATED POWER SUPPLIES

MODEL	INPUT	OUTPUT (NOMINAL)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	PILOT LAMP	FUSE	SIZE L x W x H	WEIGHT
PS-M12	120 VAC 60 Hz, 5 W	12 VDC 200mA Amp	Less Than 2.5%	16.5-11.5V	-	-	1½" x 1½" x 2½" (38 x 38 x 56mm)	.8 lb (.4 kg)
PS12-10	105 - 130 VAC 60 Hz, 20 W	12 VDC 1 Amp	Less Than 7.5%	16.5-11.5V	-	-	3" x 2½" x 2½" (76 x 66 x 58mm)	1.3 lb (.6 kg)
PS24-075	117 VAC 60 Hz, 26 W	24 VDC ¾ Amp	Less Than 1.5%	26-22 V	-	Primary	6¾" x 3¾" x 2" (171 x 92 x 51mm)	3.5 lb (1.6 kg)
PS24-20	117 VAC 60 Hz, 70 W	24, 12, 6 VDC 2 Amps	Less Than 2.5%	27-22 V	-	Primary	6¾" x 3¾" x 4" (171 x 92 x 102mm)	4.5 lb (2.0 kg)
PS24-50A	117 VAC 60 Hz, 170 W	24 VDC 5 Amps	Less Than 2.5%	29-23 V	X	Primary Secondary	13¾" x 6¼" x 4¾" (337 x 159 x 121mm)	15 lb (6.8 kg)
TS242	105-125 VAC 60 Hz, 74 W	24 VDC 2 Amp	Less Than 0.5%	28 - 22.4 V	X	Primary Secondary	3¾" x 10¾" x 6" (99 x 276 x 152mm)	10 lb (4.5 kg)

REGULATED POWER SUPPLIES

MODEL	INPUT	OUTPUT (NOMINAL)	RIPPLE @ FULL LOAD	REGULATION 0 - FULL LOAD	PILOT LAMP	FUSE	SIZE L x W x H	WEIGHT
RPS24-05	117 VAC 60 Hz, 26 W	24 VDC 1/2 Amp	.5 mV	500 mV	-	Primary Secondary	6¾" x 3¾" x 2" (171 x 92 x 51mm)	3 lb (1.4 kg)
PS24-2R	105-125 VAC 60 Hz, 110 W	24 VDC 2 Amps	.5mV	500 mV	X	Primary Secondary	13¾" x 6¼" x 4¾" (337 x 159 x 121mm)	15.5 lb (7.0 kg)
PS24-4R	105-125 VAC 60 Hz, 210 W	24 VDC 4 Amps	1mV	300 mV	X	Primary Secondary	13¾" x 6¼" x 4¾" (337 x 159 x 121mm)	16.5 lb (7.5 kg)
*TPS24-05	117 VAC 60 Hz, 26 W	24 VDC 1/2 Amp Talk Line	.5 mV	500 mV	-	Primary	6¾" x 3¾" x 2" (171 x 92 x 51mm)	3 lb (1.4 kg)

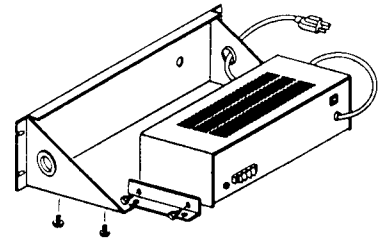
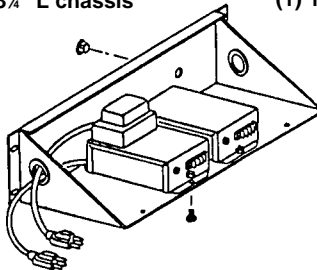
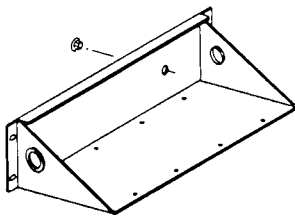
* For use with telephone intercom stations. See SL8-1434.

RACK MOUNT ACCESSORY SHELF (MODEL PS-RK)

Size (L x W x H): 19" x 8" x 5½" (483 x 203 x 133mm)

• Plug provided for viewing hole when not mounting 13¾" L chassis

• Holds up to (4) 6¾" L chassis or (1) 13¾" L chassis



ARCHITECT AND ENGINEER SPECIFICATIONS

Power supply shall be Atlas Sound Model _____. It shall be capable of supplying ____ amps at ____ volts. Ripple shall be ____ at full load. Primary circuit shall be protected by (fuse, circuit breaker). Mounting provisions shall be integral to the chassis design. Size shall be ____.

Specifications subject to change without notice



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POWER SUPPLY / RELAY MODULE (POWERED DPDT RELAY)

PSRM-1



SPECIFICATIONS

Input Power:	117 VAC, 60 cycles, 10 watts
Internal Power output:	24 VDC
Relay type:	24VDC, DPDT
Relay contacts:	Gold overlay on silver alloy
Relay contact rating:	3 amps
Relay power req.:	24 VDC, 35 mA
Termination:	8 point, screw type (2 for external switch, 6 for relay contacts)
Size:	4" (102mm x 4 3/8" (111mm) x 2 1/4" (57mm)
Finish:	Black Epoxy
Mounting:	'Instant Mount' or with mounting holes.

APPLICATIONS

The PSRM-1 can be used wherever a DPDT relay with a built-in power supply is needed. The unit can be utilized as a music muting device, paging adapter, powered remote control switch or perhaps to control additional relays. The applications for the PSRM-1 are limited only by your ideas. For your convenience, a number of circuits or possible uses are shown on the reverse side.

GENERAL DESCRIPTION

The Model PSRM-1 is a chassis containing a DPDT relay and a built-in power supply. The relay is terminated on a six position terminal strip for easy external wiring. In addition, two terminals are provided for an external switch to actuate the relay.

The PSRM-1 powered DPDT relay utilizes the revolutionary Atlas Sound 'Instant Mount' technique. The chassis is equipped with double face pressure sensitive foam tape. By merely peeling back the coating, the unit can be applied on any surface, vertical or horizontal. Press down at the location and in the position you desire. The PSRM-1 will be securely mounted regardless of temperature or vibration. Tools and unsightly screw heads are completely eliminated. If removal is necessary, pry up with a screw driver or similar instrument. Mounting holes are provided, if pressure mounting is not utilized.

The power supply consists of a step down transformer, rectifier and filter capacitor. It is capable of delivering 24 VDC at 150 mA. Since the relay power requirement is 35 mA., the power available is more than necessary for reliable operation. The primary of the transformer is fused for maximum protection. The relay is a DPDT 24 VDC unit. The coil is wound on a nylon bobbin and the contacts are gold inlay on silver alloy for a long and trouble free life. The contact rating is 3 amps. A diode is wired across the relay coil and acts as a transient suppressor thus eliminating annoying 'pops' and 'clicks'.

The chassis is compact and light weight and completely enclosed. Only the 8 position terminal strip is exposed for easy access. The terminals are clearly labeled for quick contact identification. The finish is black epoxy. The unit is furnished complete with a six foot power cord.

ARCHITECT AND ENGINEER SPECIFICATIONS

The powered relay shall be Atlas Sound model PSRM-1 or approved equal. It shall consist of a 24VDC DPDT relay terminated in an external strip and completely enclosed. It shall have an internal power supply controlled by an external switch. It shall have a diode for transient suppression. It shall be mounted by the Atlas Sound 'Instant Mount' technique or an approved equal. It shall be fused in the primary for maximum protection.

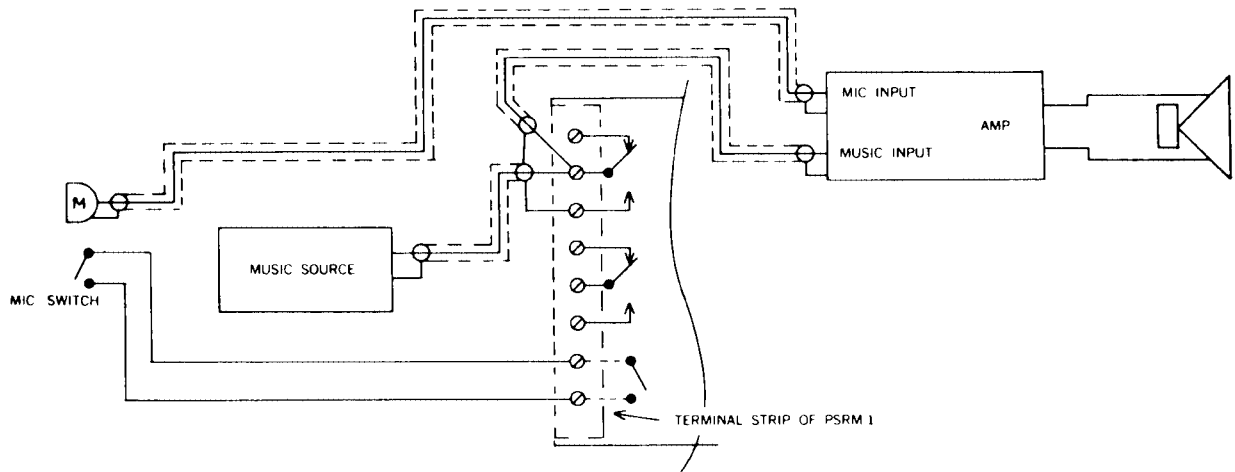
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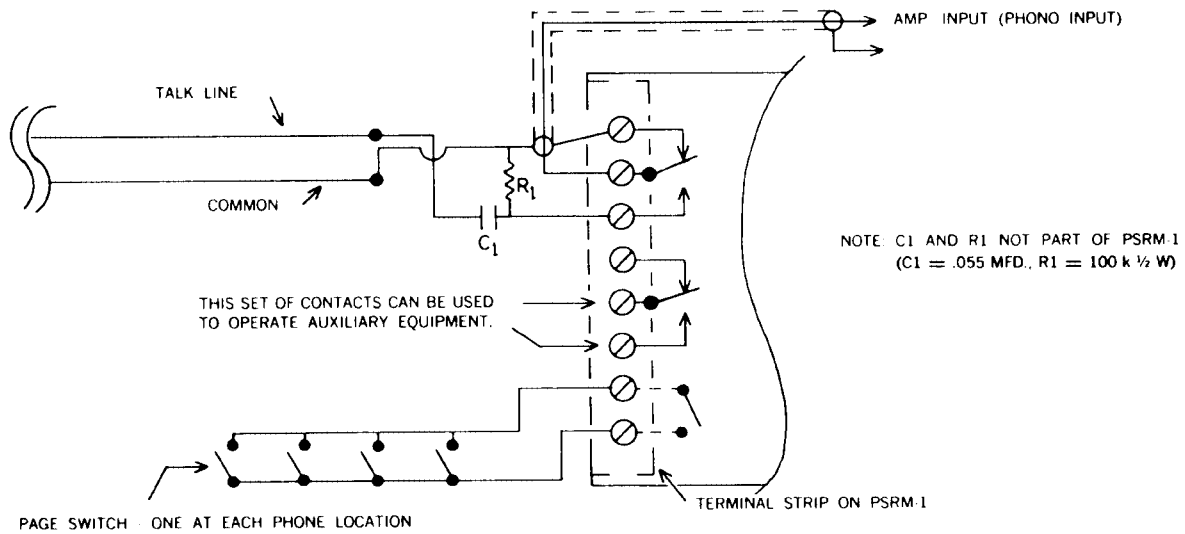
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TYPICAL WIRING CHARTS



WIRING DIAGRAM USING THE PSRM-1 AS A MUSIC MUTING DEVICE



Specifications subject to change without notice

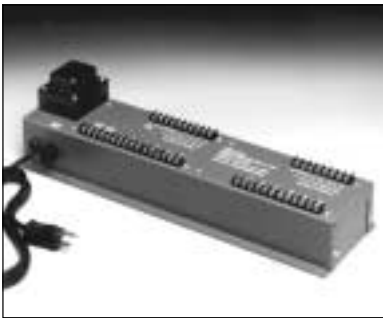


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PSR-206



PSR-212

FEATURES

- Choice of six (PSR-206) or twelve (PSR-212) 24 VDC DPDT relay models
- Easy conversion for all-page applications
- Available in 12 or 24-watt versions
- Capacity for additional external relays or lights
- Pre-mounted and wired to power supply

(For Further Reference See SL5-1419, Page 277)

APPLICATIONS

Atlas Sound's PSR Series Models PSR-206 and PSR-212 are zone-page, powered relay-pak units with an internal power supply. These relays are commonly used in communication applications where selective activation of speakers is needed. Models are designed to be used in conjunction with Atlas Sound's MPC Series (Modular Paging Communications Center) for zone paging in restaurants, reception areas, professional offices, health clubs, production, and customer service departments. Refer to SL5-1419.

Relay-pak can be easily converted to accommodate all-page applications, and have the capacity of adding external relays or lights.

DESCRIPTION

Model PSR-206. The Model PSR-206 is a zone page, powered relay-pak with an internal power supply. The unit is completely wired and ready for mounting. The power supply is capable of delivering 500 mA at 24 VDC. A fuse is used for extra protection. The output of the power supply is terminated at the terminal strip as well as internally to the relay coils. This allows the use of excess power supply capacity for external relays.

Six 24 VDC, DPDT relays are pre-mounted and wired to the power supply. The contacts are of silver, gold plated and the contact rating is 3 amps. The coil current is a nominal 35mA. The relays are wired and terminated as shown (see page 2). The terminals are easily identified by a silkscreened diagram. Any relay may be easily converted to an 'all page' relay by connecting the off bus to the selected relay-switch output. **Note:** Allows for 5 zones, plus "All Call", or 6 zones without "All Call".

Model PSR-206. Is a completely enclosed in a compact 18-gauge CRS chassis finished in black epoxy. It features a 6 ft. power cord. It is designed to be used with Atlas Sound Model MPC Series modular paging communications center.

Model PSR-212. This unit has all the features of Model PSR-206 except it employs twelve relays instead of six. The transformer is mounted on the surface with a protective shell. Model PSR-212 is larger than Model PSR-206 (see specifications). It is also designed for use with Atlas Sound MPC Series modular paging communications center. **Note:** Allows for 11 zones, plus "All Call", or 12 zones without "All Call".

MODEL	PSR-206	PSR-212
INPUT POWER	117 VAC, 60 cycles 12 watts	117 VAC, 60 cycles 24 watts
OUTPUT POWER	24 VDC, 500 mA	24 VDC, 1 amp
RELAYS (NUMBER)	6	12
RELAY TYPE	24 VDC, DPDT	24 VDC, DPDT
RELAY COIL CURRENT	Nominal 35 mA	Nominal 35 mA
RELAY CONTACT RATING	3 amps	3 amps
TERMINAL STRIPS	one 10 point, screw-type two 8 point, screw-type	one 10 point, screw type three 8 point, screw type two 6 point, screw type
SIZE	13¼" x 4¾" x 2¼" (334mm x 111mm x 57mm)	17½" x 4¾" x 2¼" (435mm x 111mm x 57mm)

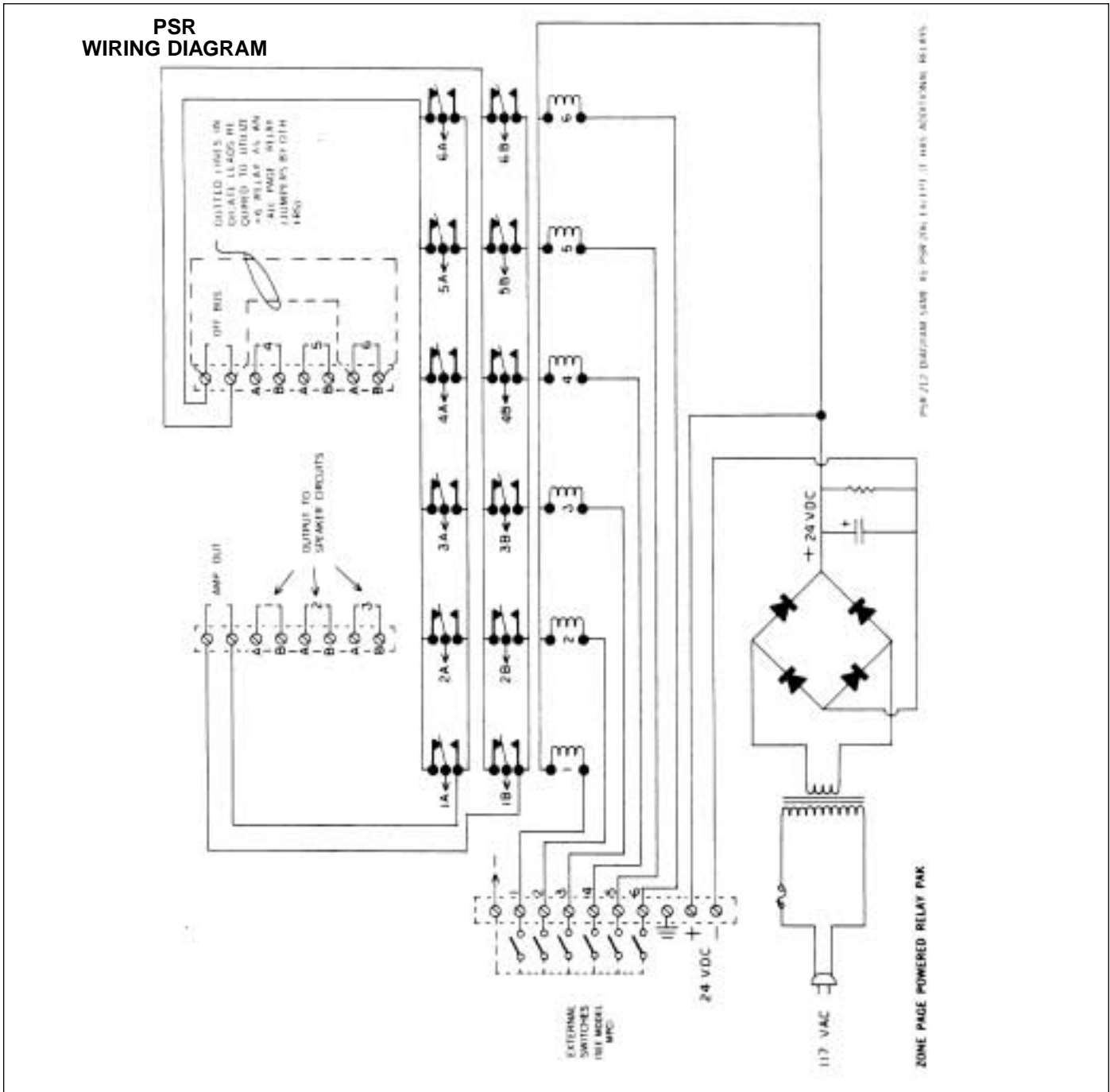
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ARCHITECT AND ENGINEER SPECIFICATIONS

The zone page powered relay pak shall be Atlas Sound Model _____ (PSR-206, PSR-212) or approved equal. It shall include a power supply. Unit shall be wired and ready for mounting. The power supply shall be capable of delivering _____ (500 mA at 24 VDC, Model PSR-206; 1 amp at 24 VDC, Model PSR-212). The relay pak shall utilize _____ 6 or 12 relays and shall have external provisions to wire one relay as an 'all page' application.

Each relay shall be a DPDT with a 24 VDC power supply. The unit output shall be terminated at screw terminals for easy access. The chassis shall be constructed of 18 gauge CRS. Models shall include silkscreened terminal diagram and a 6-ft. power cord. Relay pak shall be capable of being used with Atlas Sound MPC Series modular paging communications center.



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