

APS-6R

6.0 Amp Auxiliary Power Supply



Power Supplies

GENERAL

The APS-6R is a state-of-the-art, 150-watt, switching auxiliary power supply providing 24 VDC of filtered DC power. The APS-6R provides two 24 VDC output circuits, each rated for 3.0 Amps in alarm and 2.0 Amps continuous. It is used for the operation of peripheral audible/visual devices (alarm signaling appliances) for the NOTIFIER AM2000, AFP-1010, NFS-3000, NFS-640, AFP-400, AFP-300, AFP-200, System 5000, and System 500 control panels.

FEATURES

- Lightweight, compact design.
- "Off-line" switching technology.
- Forward topology.
- Unique design — magnetic flux-sensed converter eliminates need for opto-coupler feedback.
- 120 or 240 VAC (± 50/60 Hz) field-selectable.
- Wide input voltage range: 90 – 132 VAC, 180 – 264 VAC.
- High efficiency.
- Output circuits with overload protection.
- Built-in "brown-out" circuitry.
- Diagnostic trouble LED.
- Plug-in connector for in-cabinet applications and screw terminals for remote device applications.
- Shares battery and charger circuit with control panel.
- Power-limited design, per UL requirements.
- Surface-mount technology conserves panel space.
- AC Fail supervision with field-selectable delay per UL 864.
- Heavy-duty clamp-type terminals accept up to 12 AWG (3.1 mm²) wire.

CONSTRUCTION AND OPERATION

When used with the CAB-3 or CAB-4 Series (CAB-A3/A4, -B3/B4, -C3/C4, or -D3/D4), the APS-6R mounts to a CHS-4 or CHS-4L mounting chassis. If more than one APS-6R is necessary to satisfy Audible/Visual (DC) power requirements, connect additional APS-6R power supplies together as described in the Installation Instruction Manual. When used with the AFP-200, the APS-6R mounts in the lower portion of the cabinet where batteries would normally mount (BB-17 required). When used with the System 500, only one APS-6R may be mounted in the right-most position in the cabinet.

Underwriters Laboratories requires that all Signaling Appliances be approved for use with the selected control system due to voltage operating range criteria. Use only those appliances listed for use with the associated control system. Refer to Device Compatibility Document #15378.

SPECIFICATIONS

Compatible with: AM2000, AFP-1010, NFS-3000, NFS-640, AFP-600, AFP-400, AFP-300, AFP-200, System 5000, and System 500 control panels.



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DIMENSIONS:

6.125" (15.598 cm.) high x 4.25" (11.40 cm.) wide x 3.0" (7.62 cm.) deep at protruding edge, 2.25" (5.715 cm.) deep at box edge on opposite side.

ELECTRICAL SPECIFICATIONS

AC primary input power (TBI): 120 VAC: 120 VAC, 60 Hz, 2.5 A; 240 VAC (out JP1): 240 VAC, 50 Hz, 1.2 A.

DC secondary input power (TB3): TB3-1 (+), TB3-2 (-).

24 VDC output power (TB2): Total 6.0 A (4.0 A continuous). Circuit 1 (TB2-1, TB2-2; or J1): 3.0 A @ 24 VDC power-limited. Circuit 2 (TB2-3, TB2-4; or J2): 3.0 A @ 24 VDC power-limited.

Fuses: F1 (AC supervision): 250 VAC, 4.0 A, 3 AG. F2 (Battery supervision): 32 VAC, 10.0 A, 3 AG.

Trouble supervision bus: J3 output: Form-A contact (open collector). J4 input: Form-A contact (open collector).

NOTE: J3 and J4 can be interchanged.

Loss of AC indication: Immediate indication (default); 8-hour delay (out JP2); 16-hour delay (out JP2 and JP3).

MECHANICAL SPECIFICATIONS

The APS-6R in its enclosure measures approximately 6" (15.24 cm.) x 4" (10.16 cm.) x 3" (7.62 cm.).

CABINETS FOR MOUNTING

CAB-3/CAB-4 Series: Use CHS-4 and CHS-4L chassis, for AM2000, AFP-1010, NFS-3000, NFS-640, AFP-400, AFP-300, and System 5000 control panels.

System 500: Can mount one APS-6R if the face module expansion card (such as an ICE-4) is not installed.

Notifier Nsf 3030 Programming Manual

Mark Luker



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