



FIREYE Inc.
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Product Specification

24 vdc Rack-Mounted Power Supply

p/n 60-2470-1 (115 vac)
 p/n 60-2470-2 (230 vac)

Description

The 60-2470 power supply provides 24 vdc to the 25SU3-2000, -2100, -2150 amplifiers when 115vac or 230vac power is available. The power supply plugs into an available slot in the eight-position full-rack (p/n 60-2471-3) or the four-position half-rack (p/n 60-2471-1).

Power supply models 60-2470-1 (115 vac input) and 60-2470-2 (230 vac input) both have a rated output of 2.5 amps at 24 vdc, sufficient to power up to seven 25SU3 amplifiers with up to two scanners per amplifier.

Electrical Connection

The rack connector, p/n 60-2482, is included with the 60-2470-1 and 60-2470-2 power supplies. Instructions to install the connector into the rack appear in the flame amplifier bulletin. For a complete description of the power supply external wiring, refer to the appropriate flame amplifier bulletin (CU-34 for the 25SU3-2100, CU-34E for the 25SU3-2000, CU-54 for the 25SU3-2150).

60-2482 Rack Connector

Pin	Function
4, 6	(+) DC Voltage Output
8, 10	(-) DC Voltage Output
12	(+) Voltage Sense
14	(-) Voltage Sense
16	(+) Remote on/off
18	<i>not used</i>
20	<i>not used</i>
22	<i>not used</i>
24	(-) Remote on/off
26	<i>not used</i>
28	AC input neutral
30	AC input hot
32	Earth ground

Rear View

	4
6	8
10	12
14	16
18	20
22	24
26	28
30	32

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Specifications

	P/N 60-2470-1	P/N 60-2470-2
Input voltage	115 vac (93.5 – 132 vac)	230 vac (187 – 264 vac)
Line frequency	47 – 63 Hz	
Output power	60 watts (max.)	
Output voltage	24 vdc	
Adjustable range	21 – 26 vdc	
Maximum load current	2.5 A (see Temperature range)	
Load regulation (0-100% load)	0.2%	
Line regulation	0.1%	
Switch frequency	100 kHz	
Regulation time	1 ms	
Input surge current limit	< 30 A	
Hold up time	> 20 ms	
Temperature range	Operating: 0 to +50C (+32 to 122F) *With derating: +70C (158F) maximum *Output derating: 2 W per degree C above 50C CSA approved for 2.2A @ +45C (+113F) CSA approved for 1.7A @ +60C (+140F) Storage: -25 to +85C (-13 to +185F)	
Ripple	< 60 mV p-p	
Efficiency	87%	
Current limiting at	110%	
Overvoltage protection at output	28 vdc	
Overvoltage adjustable range	24 – 32 vdc	
Insulation voltage	Primary – secondary: 3750 V Primary – earth: 1500 V Secondary – earth: 500 V	
Electrical Safety Standard	EN 60950	
EMC Standards	Emission: EN 50081-1 Immunity: EN 50082-1	
Weight and Dimensions	0.55 kg (1.2 lbs) (H) 128.5mm (5.1in) / 3U (W) 40.3mm (1.6 in) / 8HP (D) 165mm (6.5 in)	

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