

MODEL 5030

SWITCHING POWER SUPPLY CARD

DESCRIPTION

The Model 5030 is a switching power supply designed for use in the 5000 Series Audio Processing System. It plugs into slot 13, the extreme right-hand slot of the Model 5032-6 or 5032-12 Mainframe, and provides ± 15 VDC at a current level suitable for powering up to 12 audio processing cards which might be used in a full 5032-12 Mainframe and +15V for phantom power for microphones. For higher current applications such as the 5232Q Dual 32 Watt Amplifier, two 5030 Power Supplies can be plugged into slots 10 and 11 of the 5032-10 Mainframe.

Three green LEDs are mounted near the front edge of the circuit card to indicate normal operation of their respective supplies. The upper LED is for -15 VDC, the middle LED is for Phantom Power, and the bottom LED is for the $+15$ VDC supply.

An On/Off slide switch is mounted below the LEDs

SPECIFICATIONS

ELECTRICAL, ANALOG

1. AC Input Voltage	
5030L	105 - 130 VAC
5030H	210 - 260 VAC
2. Input Line Frequency	50 - 400 Hz
3. DC Output Voltage	± 15 VDC
4. Microphone Phantom Power	+15 VDC
5. Output Voltage Adjustment Range	$\pm 5\%$
Set by on-board microcontroller, not field adjustable	
6. Efficiency, η (min)	70%
7. Output Power Limiting	200 W
8. Output Voltage Overshoot at Startup	0 V
Soft start	
9. Switching frequency (Fixed)	75 kHz
10. Peak Noise, Ripple and Spikes, (max)	75 mV
11. Overload Protection	
AC Line	3 A, 2AG, 250 V Slow Blow Fuse
+15 VDC Output	10 A, 2AG, 125 V
-15 VDC Output	10 A, 2AG, 125 V

INDICATORS

1. Upper	+15 V
Green LED	
2. Middle	Phantom Power
Green LED	
3. Lower	-15 V
Green LED	



CONTROLS

- 1. On/Off. Two Position Slide Switch

CONNECTORS

- 1. Card edge connector. Circuit Assembly CA-44EC-1-SD

MECHANICAL

- 1. Size (Maximum Overall Dimensions)
 - Height. (7.37 cm) 2.90"
 - Width (4.83 cm) 1.90"
 - Depth (21.5 cm) 8.45"
- 2. Weight
 - 5030 (611 gm) 1.35 lb

ENVIRONMENTAL

- 1. Operating Temperature Range (+32 °F - +131 °F) 0 °C - +55 °C
- 2. Storage Temperature Range. (-40 °F - +158 °F) -40 °C - +70 °C

*Innovative Electronic Designs, Inc. • 9701 Taylorsville Road • Louisville, Kentucky 40299 • USA
 Phone: (502) 267-7436 • Fax: (502) 267-9070 • Internet: <http://www.iedaudio.com>*