ISOLATED SWITCH-MODE POWER SUPPLY

- **1750 W IN 7.3" x 4.4" x 8.3" OEM PACKAGE**
- **ELECTRONIC POWER FACTOR CORRECTION**
- **UL 60601-1 COMPLIANT**
- **LOW LEAKAGE CURRENT**
- **LOW EMI**
- **HIGH EFFICIENCY**
- **REMOTE HV PROGRAMMING**

DESCRIPTION:

The ***Model 5724*** Isolated Switch-Mode Power Supply uses a proprietary power conversion technique to charge energy storage capacitors and maintain this output level for switched, variable pulsewidth solid-state laser applications. The *Model 5724* provides the highest power density of any similar module on the market today and can be configured for either positive or negative output voltage. The *Model 5724* is designed to meet the isolation and leakage current requirements for the most stringent medical requirements and the control interface can be tailored to meet your present needs. For higher average power applications, ask about AMI's *Model 5754*.

SPECIFICATIONS:

Input

Voltage	103 to 127 VAC, 1∅, 50/60 Hz (add -C to part number) or 198 to 253 VAC, 1∅, 50/60 Hz (add -D to part number)
HV Control	0 to 10 V proportional control, 10 kΩ input impedance (standard)
Inhibit	3.5 to 24 VDC, 10 kΩ input impedance

Connections

HV	Coax., MHV
Control	DB-15S, 15 pin D-sub
Power	Molex, 19-09-2038
Mate	Molex, 19-09-1039

Cooling Forced air, fan included

Operating Temperature
0° to +40°C

Output

Power	1750 W, 400 V ≤ V_{MAX} ≤ 1000 V Output power will be reduced when operating at <90% of $V_{MAX.}$ (See power derating curve on reverse.)
Voltage (Maximum)	400 V to 1000 V (specify in part number) Negative output (add -N to part number)
Regulation	0.1%
Efficiency	85% to 90% (typical)
Power Factor	>0.9 (typical)
Charged Indication	22 VDC via 1 kΩ output (typical)

Leakage Current ≈100 μA typical
Protection Open Circuit, Short Circuit, Thermal Overload, Over-Voltage

Size 7.3" x 4.4" x 8.3"
Weight 7 lbs

ISO 9001 CERTIFIED

Specifications subject to change without notice.

APPLICATIONS:

Constant Voltage Output for Solid-State Lasers

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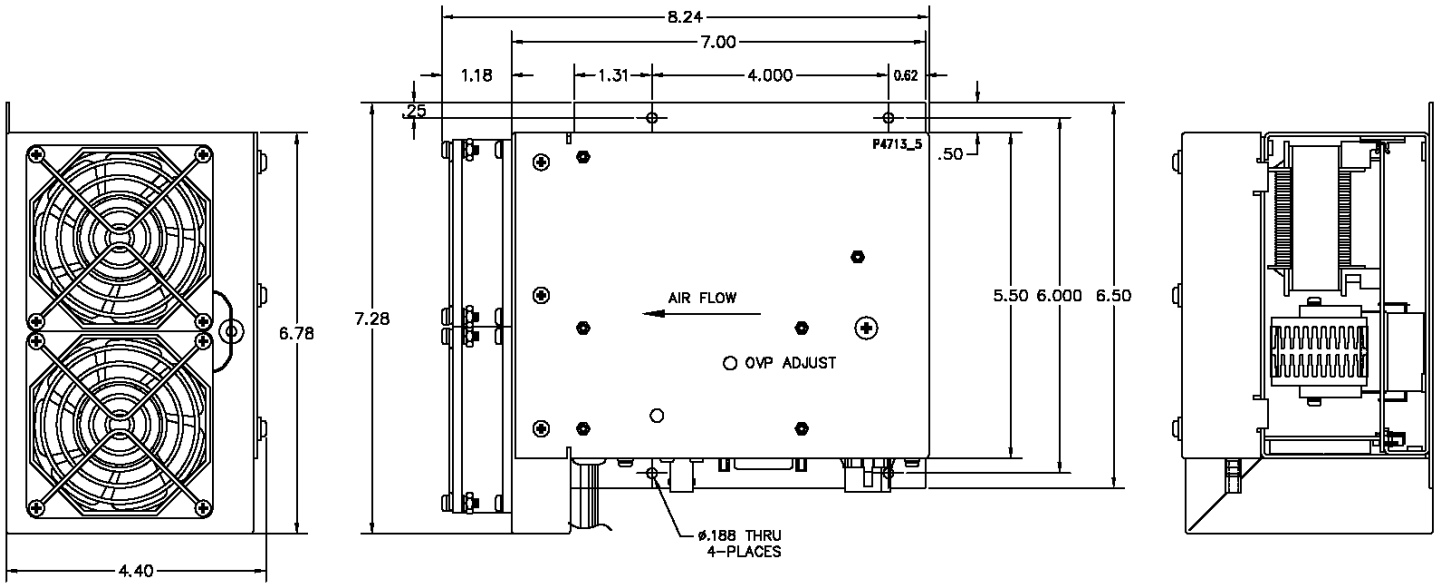
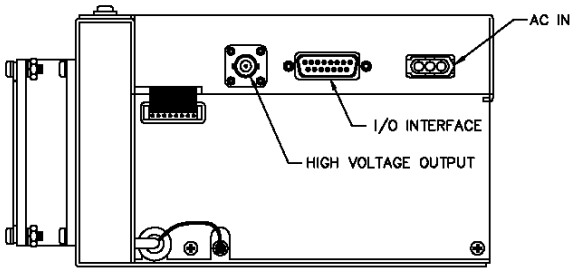
		MODEL 5724-XXXX	
		OUTPUT POWER*	
		230 VAC Input	115 VAC Input
Output Voltage (Maximum)	400 V to 1000 V	1750 W	1100 W

***See the power derating curve below.**

Typical Part Number: ***5724-1000N-2-D =***

Output Voltage: -1000VDC (Negative)
Output Power: 1750 W
Input Voltage: 230 VAC, 1∅, 50/60 Hz





I/O INTERFACE (-2)

PIN	DESCRIPTION
1	INHIBIT
2	N/C RESERVED
3	OVERTEMP STATUS INDICATOR
4	PROGRAM RTN / GND
5	PROGRAM VOLTAGE
6	OVERVOLTAGE STATUS INDICATOR
7	VOUT PEAK HOLD
8	VOUT MONITOR
9	+12VDC
10	N/C RESERVED
11	+10V REFERENCE
12	SIGNAL RETURN
13	END OF CHARGE INDICATOR
14	SIGNAL RETURN
15	GROUND INTERLOCK