



### ISOLATED CAPACITOR CHARGING POWER SUPPLY

- 1500 W IN 7.3" x 4.4" x 8.3" OEM PACKAGE
- ELECTRONIC POWER FACTOR CORRECTED
- UL 60601-1 COMPLIANT
- LOW LEAKAGE CURRENT
- LOW EMI
- HIGH EFFICIENCY
- REMOTE HV PROGRAMMING



### DESCRIPTION:

The **Model 5723** Isolated Capacitor Charging Power Supply uses a proprietary power conversion technique to repeatedly charge energy storage capacitors for pulsed, solid-state laser applications. The **Model 5723** 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 5723** 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 the AMI **Model 5753**.

### SPECIFICATIONS:

<b>Input</b>		<b>Output</b>	
Voltage	103 to 127 VAC, 1 $\emptyset$ , 50/60 Hz (add -C to part number) or 198 – 253 VAC, 1 $\emptyset$ , 50/60 Hz (add -D to part number)	Power	1500 W, 400 V $\leq$ V <sub>MAX</sub> $\leq$ 1500 V 1250 W, 1500 V < V <sub>MAX</sub> $\leq$ 3000 V Full power available over a large voltage range. (See power derating curve on reverse.)
HV Control	0 to 10 V proportional control, 10 k $\Omega$ input impedance (standard)	Voltage (Maximum)	400 V to 3000 V (specify in part number) Negative output (add N to part number)
Inhibit	3.5 to 24 VDC, 10 k $\Omega$ input impedance	Regulation	0.1%
<b>Connections</b>		Efficiency	85% to 90% (typical)
HV	Coax., MHV	Power Factor	>0.9 (typical)
Control	DB-15S, 15 pin D-sub	Charged Indication	22 VDC via 1 k $\Omega$ output (typical)
Power	Molex, 19-09-2038	<b>Leakage Current</b>	$\approx$ 100 $\mu$ A typical
Mate	Molex, 19-09-1039	<b>Protection</b>	Open Circuit, Short Circuit, Thermal Overload, Over-Voltage
<b>Cooling</b>	Forced air, fan included	<b>Size</b>	7.3" x 4.4" x 8.3"
<b>Operating Temperature</b>	0° to +40°C	<b>Weight</b>	7 lbs

Specifications subject to change without notice.

### APPLICATIONS:

*Capacitor Charging for Solid-State Lasers*

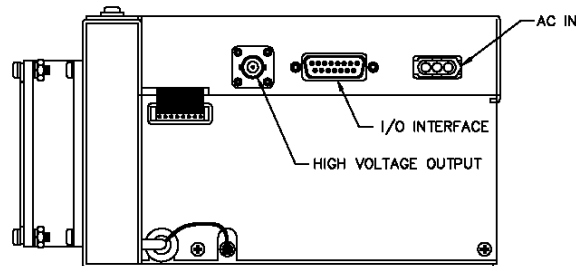
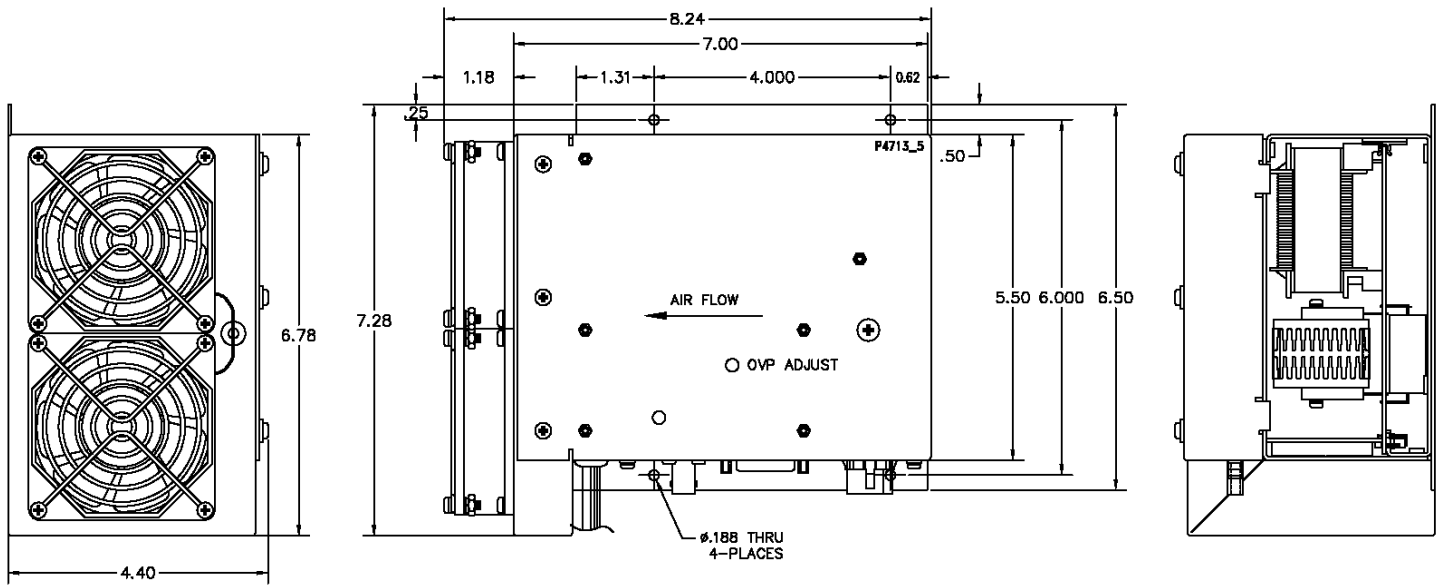


		MODEL 5723-XXXX	
		OUTPUT POWER*	
Output Voltage (Maximum)		230 VAC Input	115 VAC Input
		400 V to 1500 V	1500 W
1500 V to 3000 V	1250 W	800 W	

\*See the power derating curve below.

Typical Part Number: **5723-1500N-2-D =**

Output Voltage: -1500 VDC (Negative)  
 Output Power: 1500 W  
 Input Voltage: 230 VAC, 1Ø, 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

