



ISOLATED CAPACITOR CHARGING POWER SUPPLY

- 3000W IN 6.3" x 6.3" x 11.3" OEM PACKAGE
- ELECTRONIC POWER FACTOR CORRECTION
- CE MARKED AND APPROVED TO UL 60601-1 MEDICAL SAFETY STANDARD
- LOW LEAKAGE CURRENT
- LOW EMI
- HIGH EFFICIENCY
- REMOTE HV PROGRAMMING



DESCRIPTION:

The **Model 5753** 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 5753** provides the highest power density of any similar supply on the market today and can be configured for either positive or negative output voltage. The **Model 5753** 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 lower power applications, ask about the AMI **Model 5723**.

SPECIFICATIONS:

Input		Output	
Voltage	198 to 253VAC, 1 ϕ , 50/60Hz	Power	3000W, 400V \leq V _{MAX} \leq 1500V 2500W, 1500V < V _{MAX} \leq 3000V Full power available over a large voltage range. (See power derating curve on reverse.)
HV Control	0 to 10V proportional control, 10k Ω input impedance (standard)	Voltage (Maximum)	400V to 3000V (specify in part number) Negative output (add -N to part number)
Inhibit	3.5 to 24VDC, 10k Ω input impedance	Regulation	0.1%
Connections		Efficiency	85% to 90% (typical)
HV	Fischer D105 Series	Power Factor	>0.9 (typical)
Control	DB-15S, 15 pin D-sub	Charged Indication	22VDC via 1k Ω output (typical)
Power	3 pos. terminal block	Leakage Current	\approx 150 μ A typical
Cooling	Forced air, fan included	Protection	Open Circuit, Short Circuit, Thermal Overload, Over-Voltage
Operating Temperature	0 $^{\circ}$ to +40 $^{\circ}$ C	Size	6.3" x 6.3" x 11.3"
		Weight	15 lbs



Specifications subject to change without notice.

*U.S. Patent No. 5,461,297

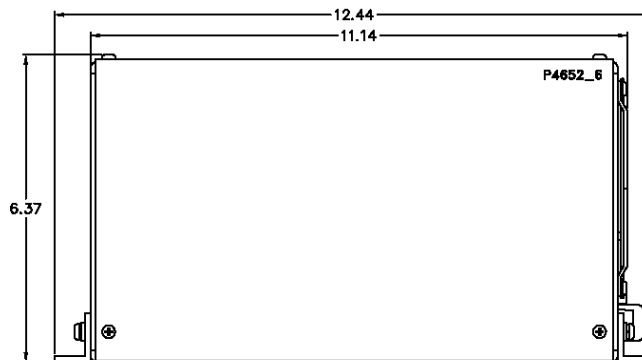
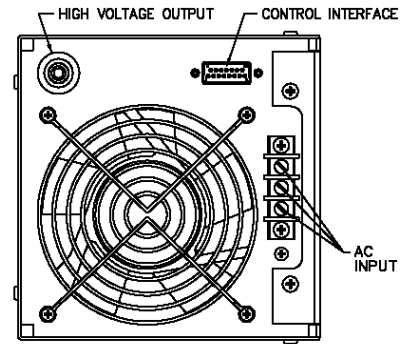
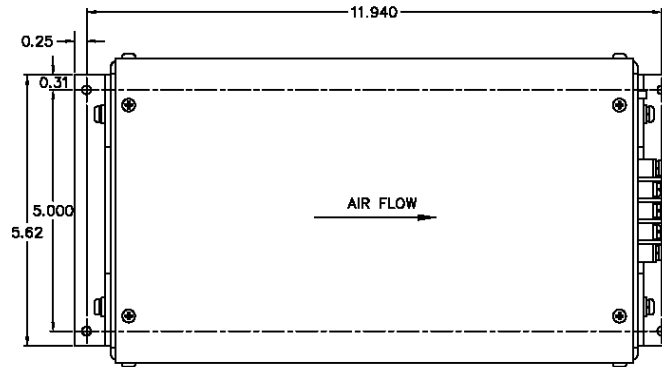
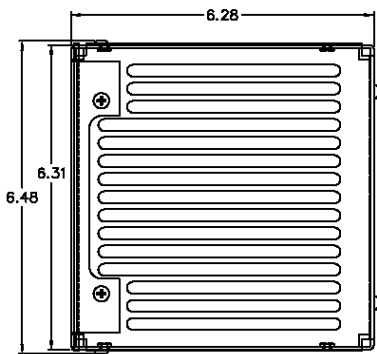
APPLICATIONS:

Capacitor Charging for Solid-State Lasers

		MODEL 5753-XXXX
		OUTPUT POWER
Output Voltage (Maximum)	400V to 1500V*	3000W
	1600V to 3000V	2500W

Typical Part Number: **5753-1500N-2 =**

Output Voltage: -1500VDC (Negative)
Output Power: 3000W
Input Voltage: 230VAC, 1Ø, 50/60Hz, terminal block



Ø.188 THRU
4-PLACES

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

