



## ISOLATED CAPACITOR CHARGING POWER SUPPLY

- 3000 W IN 6.3" x 6.3" x 11.3" OEM PACKAGE
- ELECTRONIC POWER FACTOR CORRECTION
- UL 60601-1 COMPLIANT
- 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

Voltage	198 to 253 VAC, 1 $\emptyset$ , 50/60 Hz
HV Control	0 to 10 V proportional control, 10 k $\Omega$ input impedance (standard)
Inhibit	3.5 to 24 VDC, 10 k $\Omega$ input impedance

#### Connections

HV	Fischer D105 Series
Control	DB-15S, 15 pin D-sub
Power	3 pos. terminal block

#### Cooling

Forced air, fan included

#### Operating Temperature

0° to +40°C

#### Output

Power	3000 W, 400 V $\leq V_{MAX} \leq$ 1500 V 2500 W, 1500 V $< V_{MAX} \leq$ 3000 V Full power available over a large voltage range. (See power derating curve on reverse.)
Voltage (Maximum)	400 V to 3000 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 k $\Omega$ output (typical)

#### Leakage Current

$\approx$ 150  $\mu$ A typical

#### Protection

Open Circuit, Short Circuit,  
Thermal Overload, Over-Voltage

#### Size

6.3" x 6.3" x 11.3"

#### Weight

15 lbs



Specifications subject to change without notice.

### APPLICATIONS:

*Capacitor Charging for Solid-State Lasers*

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

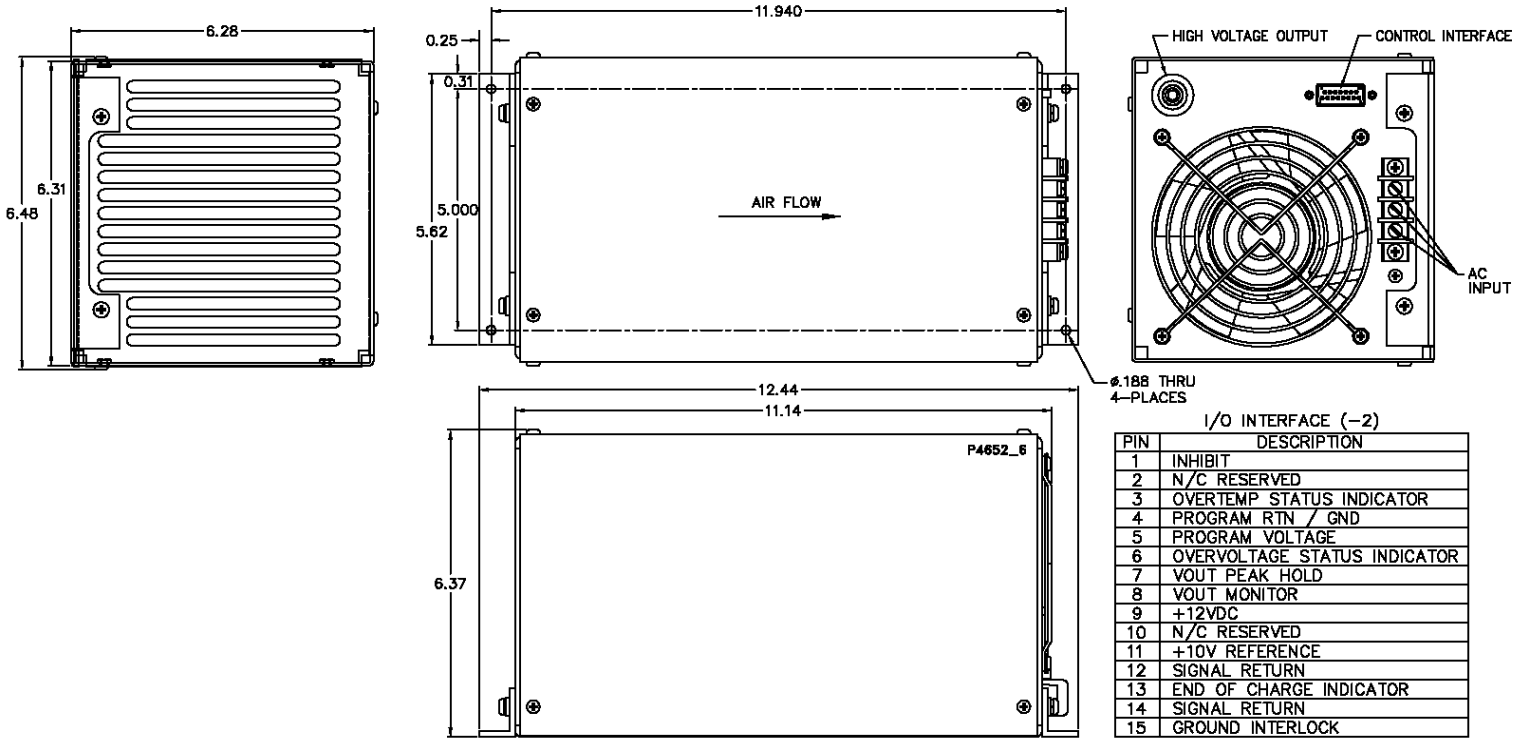
\*See the power derating curve below.

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

Output Voltage:    -1500VDC (Negative)

Output Power:      3000 W

Input Voltage:     230 VAC, 1Ø, 50/60 Hz, terminal block



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

