



## ISOLATED SWITCH-MODE POWER SUPPLY

- 3500 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 5754** 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 5754** 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 5754** 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 requiring a smaller package, ask about the AMI **Model 5724**.

### SPECIFICATIONS:

<b>Input</b>		<b>Output</b>	
Voltage	198 to 253 VAC, 1 $\emptyset$ , 50/60 Hz	Power	3500 W, 400 V $\leq$ V <sub>MAX</sub> $\leq$ 1000 V Output power will be reduced when operating at <90% of V <sub>MAX</sub> . (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 1000 V (specify in part number)
Inhibit	3.5 to 24 VDC, 10 k $\Omega$ input impedance	Regulation	Negative output (add -N to part number)
<b>Connections</b>		Efficiency	0.1% (typical)
HV	Fischer D105 Series	Power Factor	85% to 90% (typical)
Control	DB-15S, 15 pin D-sub	Charged Indication	>0.9 (typical)
Power	3 pos. terminal block		22 VDC via 1 k $\Omega$ output (typical)
<b>Cooling</b>	Forced air, fan included	<b>Leakage Current</b>	$\approx$ 150 $\mu$ A (typical)
<b>Operating Temperature</b>	0 $^{\circ}$ to +40 $^{\circ}$ C	<b>Protection</b>	Open Circuit, Short Circuit, Thermal Overload, Over-Voltage
		<b>Size</b>	6.3" x 6.3" x 11.3"
		<b>Weight</b>	15 lbs



Specifications subject to change without notice.

### APPLICATIONS:

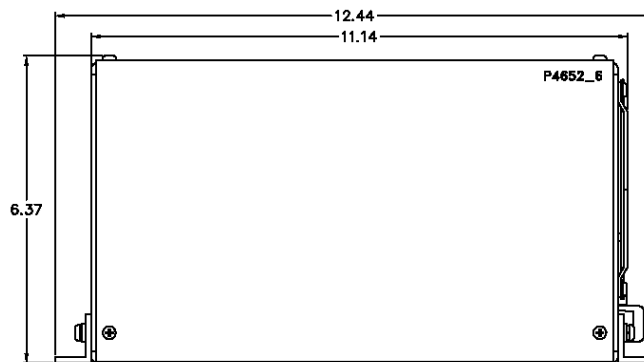
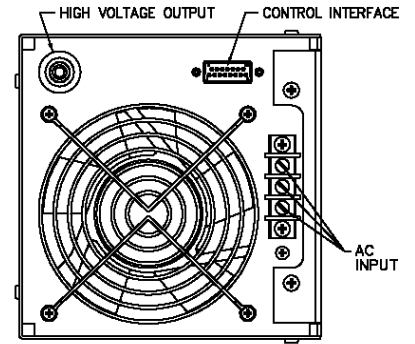
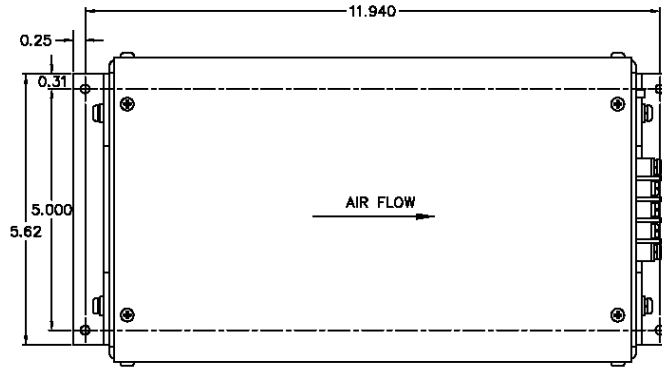
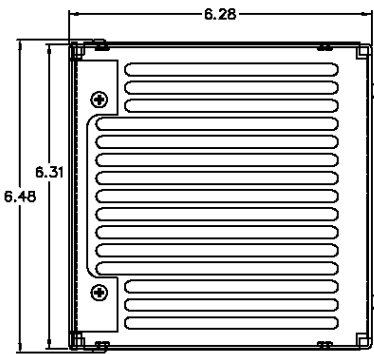
*Constant Voltage Output for Solid-State Lasers*

		<b>MODEL 5754-XXXX</b>
		OUTPUT POWER*
Output Voltage (Maximum)	400 V to 1000 V	3500 W

\*See the power derating curve below.

**Typical Part Number:** 5754-1000N-2 =

Output Voltage: -1000 VDC (Negative)  
 Output Power: 3500 W  
 Input Voltage: 230 VAC, 1Ø, 50/60 Hz, 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

