

ISOLATED SWITCH-MODE POWER MODULE

- COMPACT 6.0" x 5.5" x 2.85" PACKAGE
- 2000W NON-POWER FACTOR CORRECTED
- 1750W POWER FACTOR CORRECTED
- C E MARKED AND APPROVED TO UL 60601-1 MEDICAL SAFETY STANDARD
- DIRECTIVE 2011/65/EU (RoHS II) COMPLIANT
- LOW EMI, ULTRA LOW LEAKAGE CURRENT
- HIGH EFFICIENCY
- MODULAR, EXPANDABLE



DESCRIPTION:

The **Model 5704A** isolated switch-mode power module uses a proprietary power conversion technique to charge energy storage capacitors to a specified voltage and to maintain this output level for switched, variable pulsewidth solid-state laser applications. The **Model 5704A** provides the highest power density of any power module on the market and may easily be used with additional **5704A Series** modules for high average power applications. The **Model 5704A** is designed to meet the isolation and leakage current requirements for the most stringent medical applications. For OEM applications, ask about the AMI **Model 5724**.

SPECIFICATIONS:

Input

Voltage (See table on reverse side.)
24VDC at 250mA (typical) also required

Power Factor Corrected: 0.9 with rectified 230VAC input, 253VAC max., 1750W output (add -P to part number)

Uncorrected: 0.65 with 325VDC input, 360VDC max., 2000W output (add -N to part number)

HV Control 0 to 10VDC proportional control with 20kΩ input impedance

Inhibit 3.5 to 24VDC to inhibit with 10kΩ input impedance

Cooling Requirements

≥110CFM recommended. Pull air from connector end.

Operating Temperatures

0° to +40°C

Output

Power (See table on reverse side.)
Operation at voltages <90% of maximum voltage will result in decreased average power. (See power derating curve on reverse.)

Voltage (Maximum) 400 to 1000VDC (specify in part number)

Regulation 0.1% (typical)

Efficiency 85 to 90% (typical)

Charged Indication
15VDC output requires pulldown resistor

Leakage Current

25μA (typical)

Protection

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

Size

6.0" x 5.5" x 2.85" (without fan)

Weight

3 lbs



Specifications subject to change without notice.

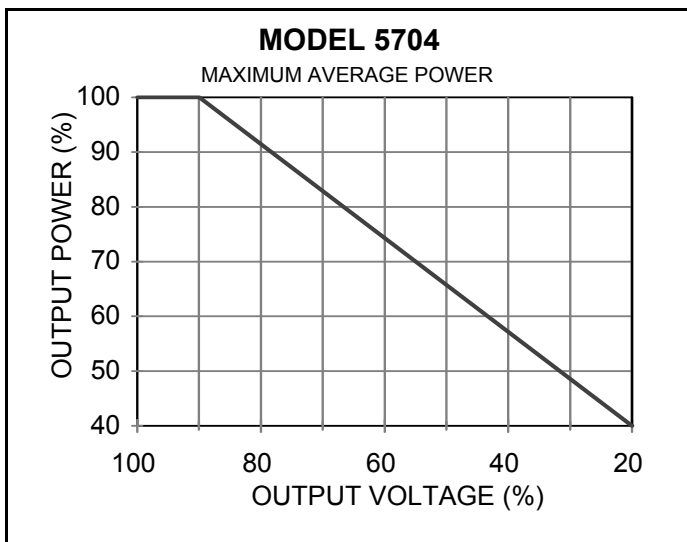
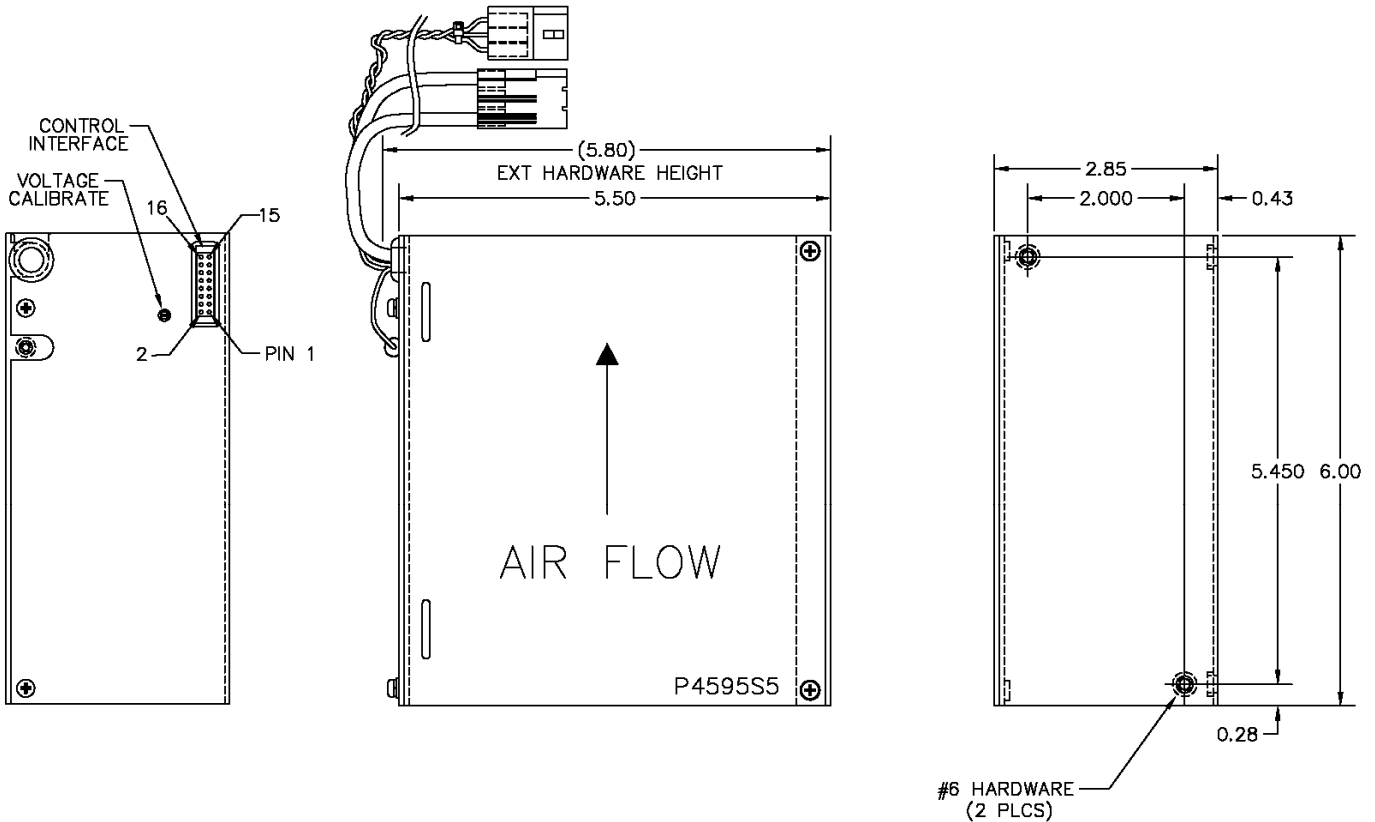
APPLICATIONS:

Constant Voltage Output for Solid-State Lasers

		MODEL 5704A - XXXX		
		MINIMUM OUTPUT POWER		
		325VDC (-N-D)	230VAC (Rectified) (-P-D)	115VAC (Rectified) (-P-C)
Output Voltage (Maximum)	400V to 1000V	2000W	1750W	1100W

Typical Part Number: **5704A-1000-P-D =**

Input Voltage: 230VAC (rectified)
 Maximum Output Voltage: 1000VDC
 Minimum Output Power: 1750W
 Module is power factor corrected



5703/04 IO INTERFACE DESCRIPTION

PIN	FUNCTION
1	TEMPERATURE TEST POINT
2	DEMAND OUTPUT RETURN
3	DEMAND OUTPUT CONTROL
4	SIGNAL RETURN
5	24V RTN
6	24V RTN
7	PRIMARY INHIBIT
8	PIN 8 IS REMOVED N/C
9	24V INPUT
10	24V INPUT
11	+5V REFERENCE
12	N/C RESERVED
13	OVERTEMP OUT
14	N/C RESERVED
15	END OF CHARGE
16	SECONDARY INHIBIT