ISOLATED CAPACITOR CHARGING POWER MODULE

- **COMPACT 6.0" x 5.5" x 2.85" PACKAGE**
- **1750 W NON-POWER FACTOR CORRECTED**
- **1500 W POWER FACTOR CORRECTED**
- **UL 60601-1 COMPLIANT**
- **DIRECTIVE 2011/65/EU (RoHS II) COMPLIANT**
- **LOW EMI, ULTRA LOW LEAKAGE CURRENT**
- **HIGH EFFICIENCY**
- **MODULAR, EXPANDABLE**

DESCRIPTION:

The ***Model 5703A*** Isolated Capacitor Charging Power Module uses a proprietary power conversion technique to repeatedly charge energy storage capacitors for pulsed, solid-state laser applications. The *Model 5703A* provides the highest power density of any capacitor charger on the market and may easily be used with additional modules for high average power applications. The *Model 5703A* is designed to meet the isolation and leakage current requirements for the most stringent medical applications. For OEM applications, ask about the AMI *Model 5723A*.

SPECIFICATIONS:

Input

Voltage	(See table on reverse side.) 24 VDC at 250 mA (typical) also required
Power Factor Corrected:	0.9 with rectified 230 VAC input, 253 VAC max., 1500 W output (add -P to part number)
Uncorrected:	0.65 with 325 VDC input, 360 VDC max, 1750 W output (add -N to part number)
HV Control	0 to 10 VDC proportional control with 20 kΩ input impedance
Inhibit	3.5 to 24 VDC to inhibit with 10 kΩ input impedance

Cooling Requirements
≥110 CFM recommended. Pull air from connector end.

Operating Temperatures
0° to +40° C

Output

Power	(See table on reverse side.) Full power available over a large voltage range. (See power derating curve on reverse.)
Voltage (Maximum)	400 to 3000 VDC (specify in part number)
Regulation	0.1% (typical)
Efficiency	85 to 90% (typical)
Charged Indication	15 VDC output, requires pulldown resistor

Leakage Current
25 μA (typical)

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

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

Weight 3 lbs

RoHS

ISO 9001 CERTIFIED

Specifications subject to change without notice.

APPLICATIONS:

Capacitor Charging for Solid-State Lasers

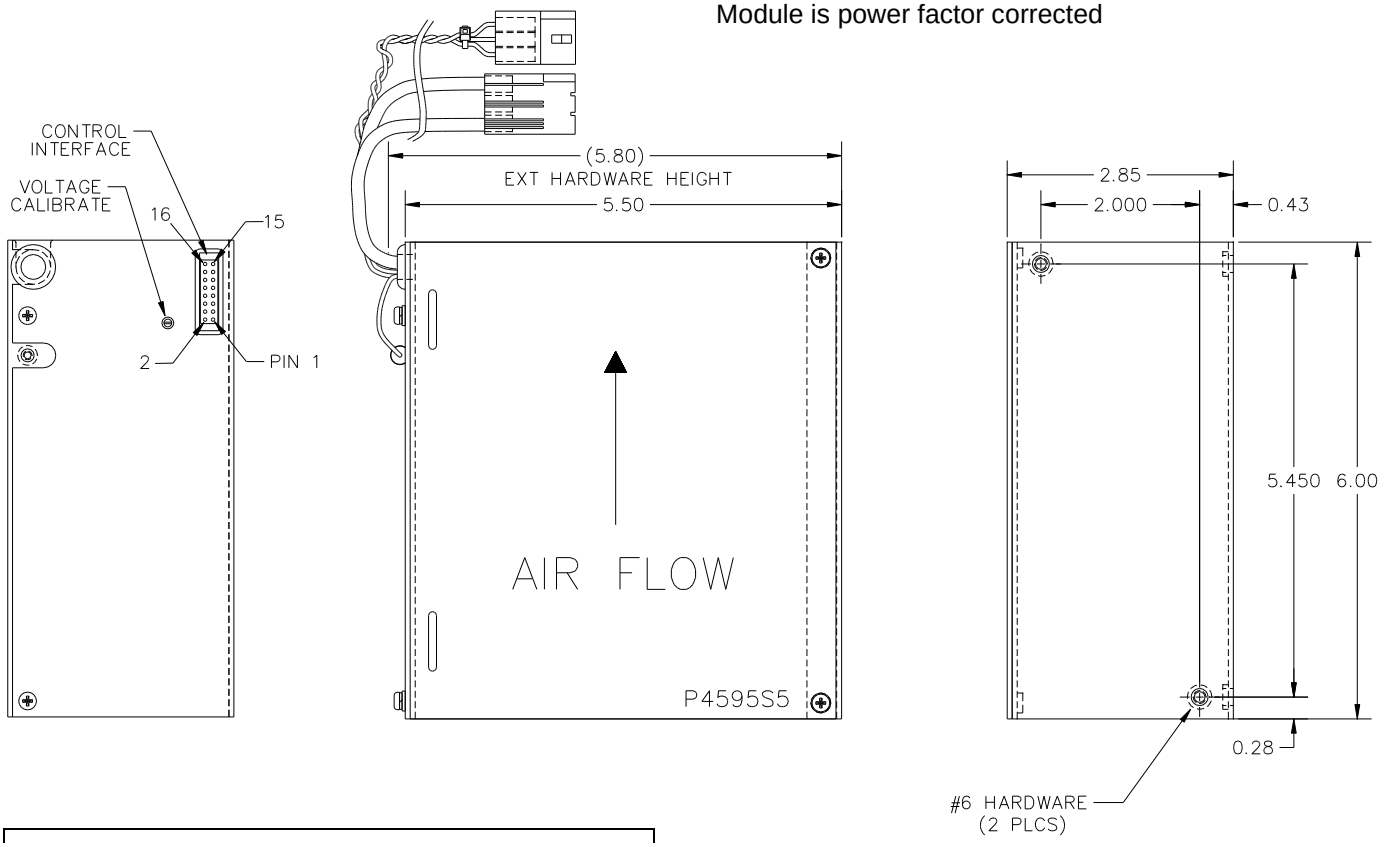
126 BAYWOOD AVENUE ♦ LONGWOOD, FLORIDA 32750-3426 ♦ USA
(407) 339-4355 ♦ FAX (407) 834-3806 ♦ Email: ami@analogmodules.com
www.analogmodules.com

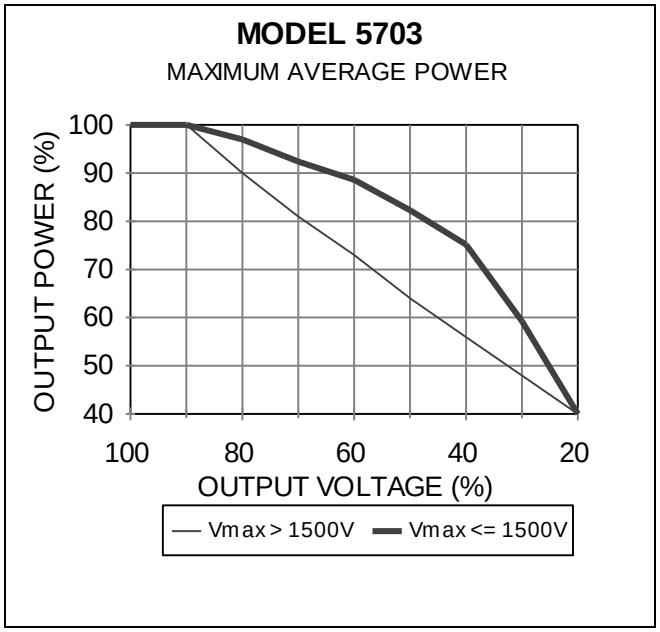
		MODEL 5703A- XXX-Y-Z		
		MINIMUM OUTPUT POWER*		
		325 VDC (-N-D)	230 VAC (Rectified) (-P-D)	115 VAC (Rectified) (-P-C)
Output Voltage (Maximum)	400 V to 1500 V	1750 W	1500 W	1000 W
	1600 V to 3000 V	1500 W	1250 W	800 W

***See the power derating curve below.**

Typical Part Number: ***5703A-1500-P-D*** =

Input Voltage: 230 VAC (rectified)
Maximum Output Voltage: 1500 VDC
Minimum Output Power: 1500 W
Module is power factor corrected





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