CAPACITOR CHARGING POWER SUPPLY

- **Ideal for Capacitor Charging**
- **Output Voltage - 0 TO 1500 V**
- **Output Power – 150 W**

DESCRIPTION:

The ***Model 568*** is a robust DC to DC converter that operates over a wide output voltage range and is ideal for laser capacitor charging up to 1.5kV. With an external capacitor, the Model 568 provides a voltage source adjustable from 0 to 1.5kV. An inhibit input and charge indicator output are provided. Consult factory for OEM configurations.

SPECIFICATIONS:

Input
Voltage: +18 to +32 VDC, 50 V surges per MIL-STD-704D

Output
Voltage: 0 to +1500 V, standard, common ground (Add -1.5 to part number.) Contact factory for other output voltages.
Current: 800 mA into short circuit load
Power: 150 W (100 mA at 1.5 kV). See graph on reverse for operation at reduced voltage.
Regulation: 15 μF load, 1 kV
Load: 0.3%, 0 to 100% load
Line: 0.1%/volt
Voltage Control: Internal multi-turn, 10 kΩ trimpot
External 0 to 6 V proportional control (add -EXT to part number.)
Efficiency: 85% typical

External Output Capacitor
>1 μF must be connected to avoid damage.

Inhibit: 2.5 to 24 VDC, 10 kΩ input impedance

Charge Time: 50 ms to 1 kV (7.5 Joules into 15 μF)

Charged Output
7 V via 4.7 kΩ when output voltage is correct; pulses during regulation.

Temperature
Operating: -55° to +85°C
Storage: -65° to +85°C
Coefficient: -0.01%/°C typical

Connections
Control/HV Out/Power: ITT, DBM-13W3S
Mating: ITT, DBM-13W3P

Size: 3.63" x 3.27" x 2.94"
Weight: 1.4 lbs. (0.63Kg.)

Specifications subject to change without notice.

APPLICATIONS:

Capacitor Charger for Solid-State Lasers

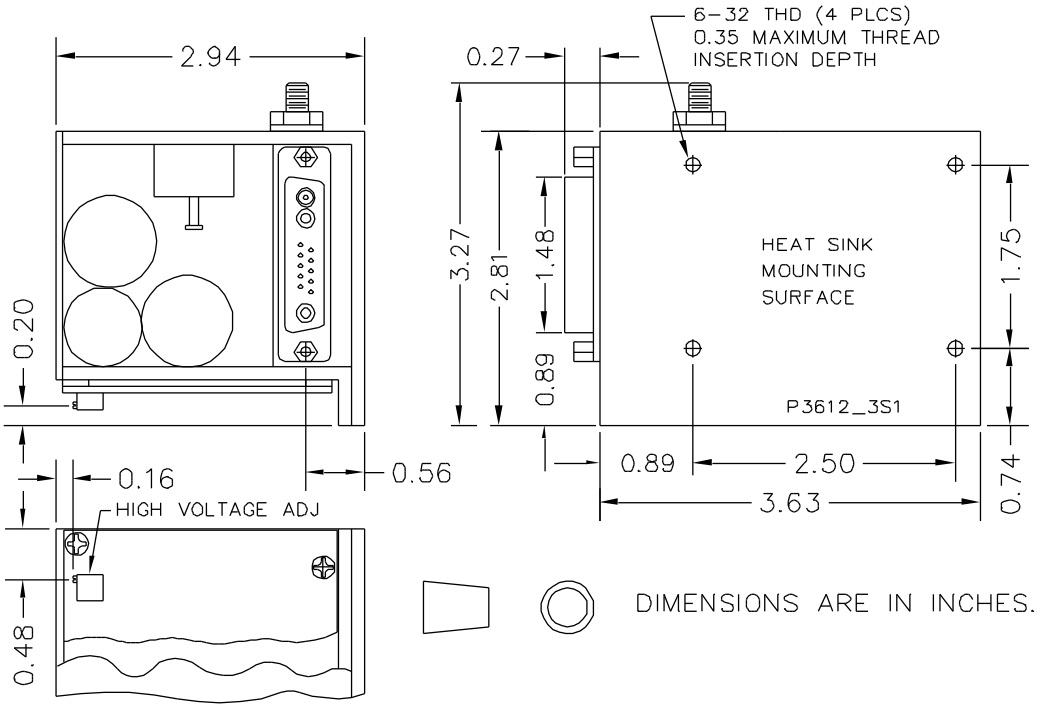
126 BAYWOOD AVENUE ♦ LONGWOOD, FLORIDA 32750-3426 ♦ USA
(407) 339-4355 ♦ FAX (407) 834-3806 ♦ E-mail: ami@analogmodules.com
www.analogmodules.com

MODEL NUMBER

		OUTPUT VOLTAGE	
		Internal multi-turn Trimpot Control	External Trimpot Control via Connector
INPUT VOLTAGE	+18 to +32 VDC	**568-1.5**	**568-1.5-EXT**

Typical Part Number: ***568-1.5*** =

Input Voltage: +18 to +32 VDC
Output Voltage: 0 to +1500 V
Voltage Control: Internal multi-turn, 10 kΩ trimpot
Output Power: 150 W



NOTES:
1. MATING CONNECTOR & HARDWARE SUPPLIED.

CONN PLUG-ITT,DBM-13W3S	
PIN #	SIGNAL NAME
A1	+ SUPPLY INPUT
A2	HV/SUPPLY RTN
A3	HV OUTPUT
1	SIGNAL RTN
2	INHIBIT +5V
3	EXT POT,CCW - OPTIONAL
4	EXT POT,WIPER - OPTIONAL
5	SIGNAL RTN
6	SIGNAL RTN
7	NOT USED
8	READY (HIGH WHEN REGULATING)
9	EXT POT,CW - OPTIONAL
10	SIGNAL RTN