

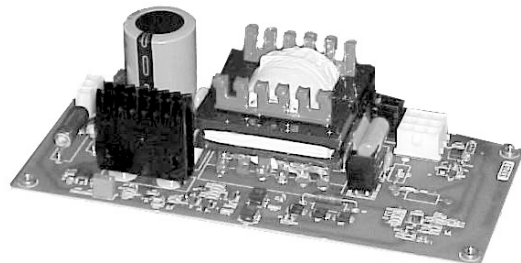


ANALOG MODULES, INC.

MODEL 575
ISOLATED CAPACITOR CHARGING
POWER SUPPLY

ISOLATED CAPACITOR CHARGING POWER SUPPLY

- IDEAL FOR CAPACITOR CHARGING
- OUTPUT VOLTAGE - 0 TO 1000V
- OUTPUT POWER - 250W
- ISOLATED INPUT/OUTPUT
- HIGH EFFICIENCY - 90%
- LOW COST, OEM PACKAGE



DESCRIPTION:

The **Model 575** is a flyback converter designed to efficiently charge energy storage capacitors up to 1000V for solid-state laser applications. The **Model 575** is packaged as an OEM PCB layout and provides up to 250W of average output power. Output voltage is set by an external 0 to +5V signal and a CHARGED output indicates regulation is achieved. An INHIBIT input allows the supply to be shut off during flashlamp pulse. The **Model 575** may be run as a constant output voltage flyback converter with the addition of an external output capacitor.

SPECIFICATIONS:

Input

Voltage +240 to +340VDC and
Enable +24VDC at 0.2A typical

Output

Voltage Up to +1000V (specify in part number.)
Power 250W at maximum voltage with 300VDC
input. See graph on reverse for operation
at reduced voltage.

Voltage Control
0 to 5V proportional to full scale HV
output.

Efficiency 90% typical

External Output Capacitor

>1 μ F must be connected to avoid
damage.

Inhibit

2.5 to 15VDC into 5k Ω
CHARGED and INHIBIT signals are on a
common line.

Charged Output

+24VDC via 1k Ω output which also inhibits
PSU; pulses during regulation.

Cooling

Requires air cooling.
50 CFM recommended.

Connectors

Control/HV Out Amp, 350763-4
Mating Amp, 1-480706-0
Power Amp, 350760-4
Mating Amp, 1-480700-0

Size

4.0" x 9.0" x 2.2"

Weight

2.0 lbs.



Specifications subject to change without notice.

APPLICATIONS:

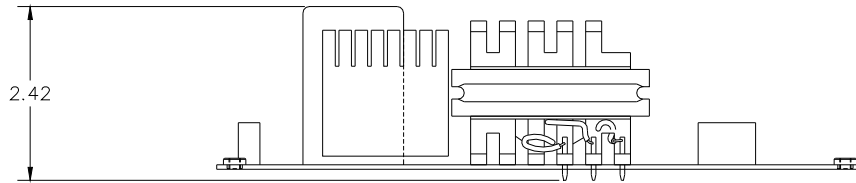
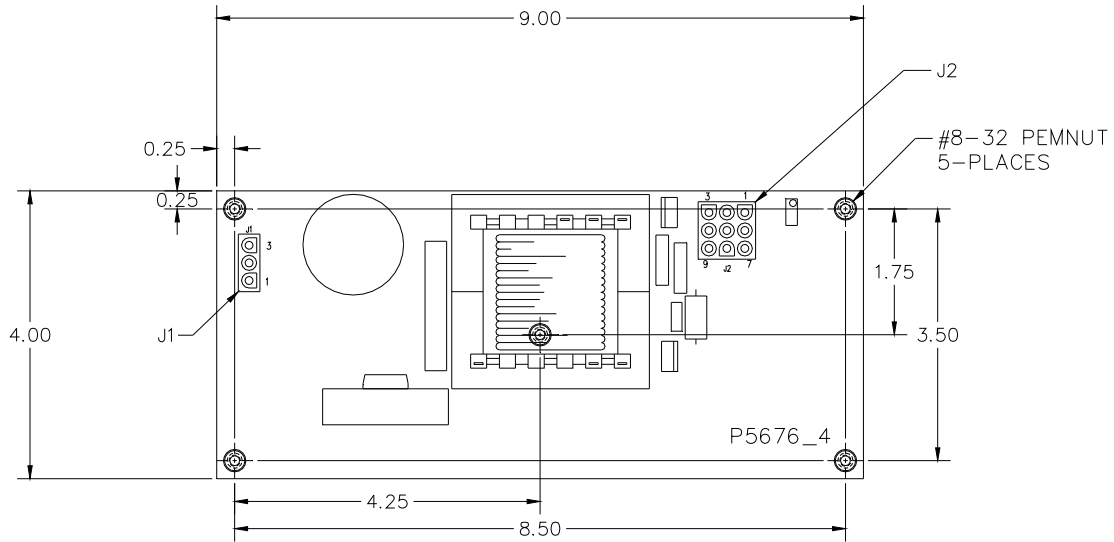
Capacitor Charger for Solid-State Lasers

		MODEL NUMBER
		OUTPUT VOLTAGE
		0 to +1000V
OUTPUT POWER	250W	575-X.X

Typical Part Number: **575-1.0 =**

Output Voltage: 0 to 1000V

Output Power: 250W



PIN #	SIGNAL NAME	BOARD CONN	MATING CONN	MATE CONTACTS
J1-1	N/C	AMP 350760-4	AMP 1-480700-0	AMP 350706-1
J1-2	300V RTN			
J1-3	+300V			
J2-1	PROG VOLTAGE	AMP 350763-4	AMP 1-480706-0	AMP 350706-1
J2-2	+5V REF			
J2-3	INHIBIT			
J2-4	PROG VOLTAGE RTN			
J2-5	HV RTN			
J2-6	N/C			
J2-7	ENABLE 24V			
J2-8	N/C			
J2-9	HV OUT			