



CAPACITOR CHARGING POWER MODULE

- 2000 W Power Factor Corrected
- Unity Power Factor, 1.0
- IEC/EN 60601 3rd Edition Medical Safety Standard
- IEC/EN 60601-1-2 Medical EMC
- CISPR 11, Class A EMC
- Universal AC Input with Automatic Power Limit
- Full and Partial Discharge Auto Switching
- High Efficiency $\geq 90\%$



DESCRIPTION:

The **Model 5727A** is a state-of-the-art new OEM Capacitor Charging Power Supply. It features active power factor correction, universal input and full compliance with medical safety standards. Modern components and manufacturing techniques are used to provide the quality and unmatched reliability our customers have come to demand at a price point that is competitive in the market. CE marked for worldwide distribution; [IEC/EN 60601](#), 3rd edition medical safety; industrial to IEC 61010-1:2010; EMC to IEC/EN 60601-1-2 Medical and CISPR 11, Class A with optional filter. The power supply is EU 2015/863 (RoHS 3) compliant.

SPECIFICATIONS:

Input

Voltage:

100 – 240 VAC, 1 \emptyset 50/60 Hz

Line current:

12.7 A_{RMS} maximum at 120 VAC
10.8 A_{RMS} maximum at 230 VAC

Power Factor: >0.99 (typical)

Efficiency: 85 to 90% (typical)

Cooling Requirements

Internal 100 CFM Fan

Operating Temperatures

0° to +40°C

Output

Power

100 – 130 VAC, 1 \emptyset 50/60 Hz, up to 1300 W*
200 – 240 VAC, 1 \emptyset 50/60 Hz, up to 2000 W

Voltage 500 to 4000 VDC Maximum

Regulation 0.1% (typical)

Leakage <350 μ A with filter

Protection

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

Size Weight

8.0" x 5.5" x 5.5" (w/o Filter)
6.4 lbs. (8 lbs. w/Filter)



Specifications subject to change without notice.

APPLICATIONS:

Constant Voltage Output for Solid-State Lasers

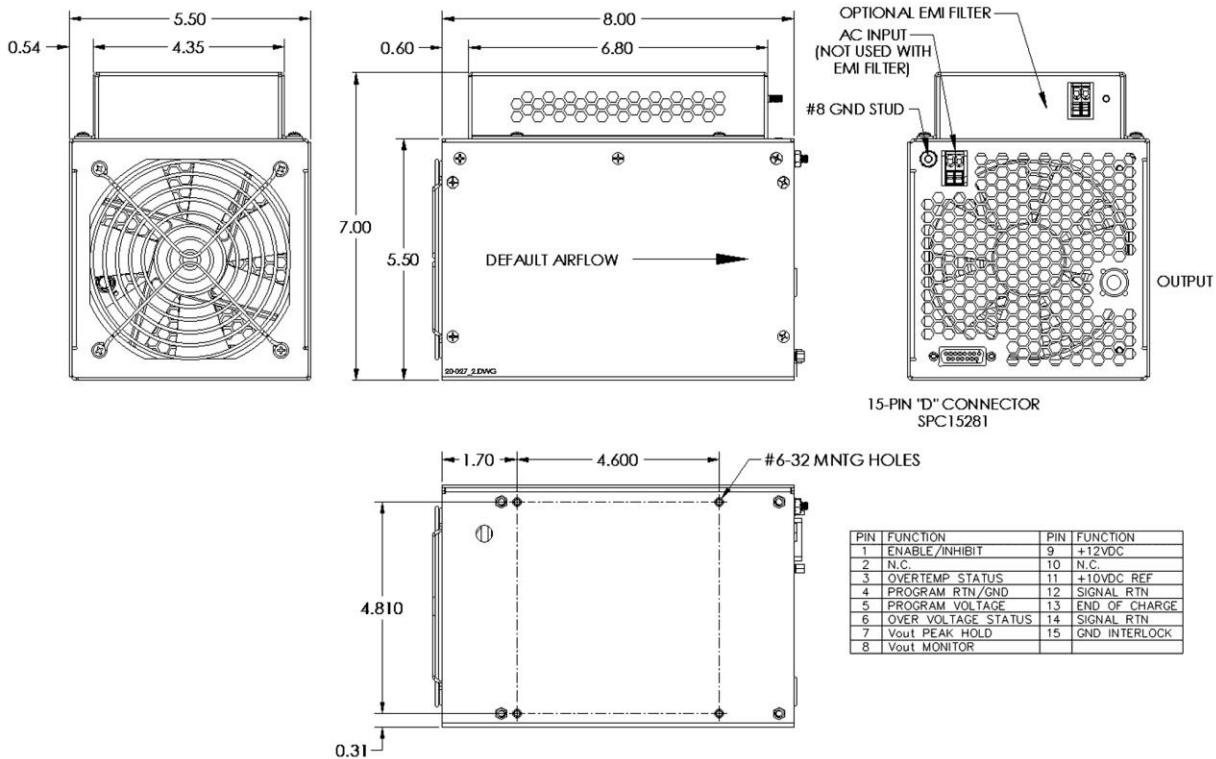
MODEL 5727A - XXXX					
	-500	-700	-1000	-1500	-3000
Output Voltage at Full Power	400 [‡] to 500 V	560 [‡] to 700 V	800 [‡] to 1000 V	1200 [‡] to 1500 V	2200 [‡] to 3000 V

Typical Part Number: **5727A-1000 =**

Input Voltage: 100 – 240 VAC, 1 Ø 50/60 Hz
 Maximum Output Voltage: 1000 VDC
 Maximum Output Power: 1300* – 2000 W

* 1000 W maximum output power for 120 VAC input with optional EMI filter.

‡ Capable of operating at lower voltages; output power will be derated on a linear curve below 80% max.



The AMI Advantage:

1. Designed and manufactured in the USA.
2. >90% efficiency
3. Unity power factor, >.99 typical.
4. Digitally controlled PFC and converter optimizes operation during the charging cycle in real time.
 - maximize efficiency, including constant power operation
 - smooth out current demand from the power source
 - reduces the peak demand
 - optimal use of power components
- 5 "Soft Touch" regulation is smartly controlled improving pulse to pulse stability
6. Auto adjustment of output power according to the mains input.
7. Optional EMI filter.
8. Available up to 4 kV.
9. Run multiple units in parallel for more power.
10. Capable of constant voltage output with external capacitor.
11. IEC/EN 60601, 3rd edition, IEC 61010-1:2010; Safety IEC/EN 60601-1-2 and CISPR 11, Class A EMC
12. Variable Speed internal cooling fan.
13. Aggressive pricing for OEM purchases.



Shown with optional EMI filter.