



CW ARC LAMP POWER MODULE

- 3-30A CW, 3kW OUTPUT
- LOW COST
- SMALL SIZE
- ISOLATED CONTROL
- ISOLATED INDICATORS



DESCRIPTION:

Designed to meet EN60601-1, the **Model 591A** is a low cost, compact, continuous (CW) current source designed to efficiently drive Xenon and Krypton arc lamps. The **Model 591A** can deliver up to 30A of lamp current or up to 3kW of average output power depending on lamp voltage. The modular design of the **Model 591A** allows multiple units to be directly paralleled for >30A applications. The module provides optically isolated indicator and current control lines, excellent line regulation, and low ripple. These features make the **Model 591A** CW Power Module an ideal choice for CW laser applications.

SPECIFICATIONS:

Input		Controls	Enable/Inhibit
Voltage	115VAC, 1Ø (add -C to part number) 230VAC, 1Ø (add -D to part number) 50/60/400Hz	(Isolated)	Current Control Remote power on Remote lamp on
Power Factor	0.66 (typical)		
Output		Indicators	Power on LED (Yellow) Lamp on LED (Green) Lamp Current Monitor (≈17mV/Amp)
Current	3 to 30A CW	(Non-Isolated)	
Rise/Falltime	500µs ± 100µs with external pulse input		
Ripple	≤ 0.15% RMS (at 10A continuous)	Temperature	0° to 40°C
Voltage	50 to 250VDC	Cooling	Forced air, 2 fans 110 cfm/fan, recommended
Power	1.0kW (115VAC/15A) 3.0kW (230VAC/20A)	Connections	
Regulation Line	1.4% (typical)	Controls/Indicators	Panduit Headers
Boost	350V squarewave at 20kHz provided for Model 592T Lamp Igniter Module	Output/Power	Spade Connectors
Efficiency	90% (typical)	Size	8.05" x 4.85" x 4.14"
		Weight	5 lbs (2.25Kgs)



Specifications subject to change without notice.

APPLICATIONS:

*CW Arc Lamp Power Module for AMI Model 893A CW Power Supply Systems,
CW Yag Laser Drive, Medical Applications*

		MODEL NUMBER	
		OUTPUT CURRENT	
		3 to 30Amps CW	
		5 to 45A CW	
INPUT VOLTAGE	115VAC	591A-C	
	230VAC	591A-D	

Typical Part Number: **591A-D** =

Output Current: 3 to 30 Amp CW
 Output Voltage: 50 to 250VDC
 Input Voltage: 230VAC, 1Ø, 50/60Hz
 Output Power: 3.0kW
 Power Factor: 0.66

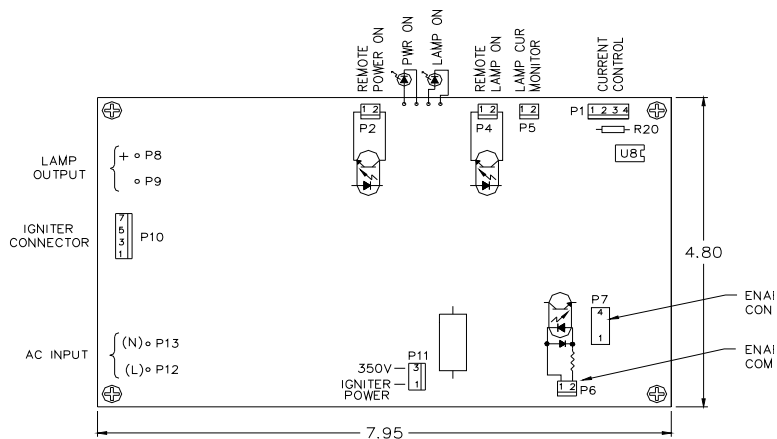
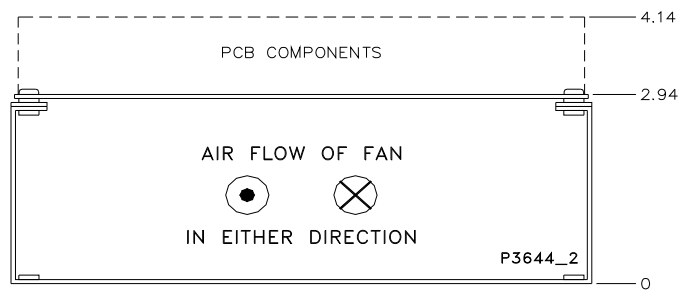
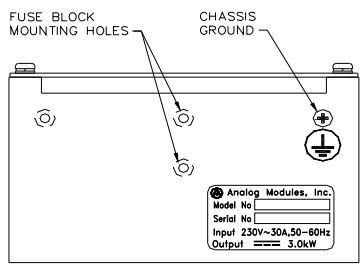


FIGURE 2
POWER MODULE CONNECTIONS



591A
CW POWER SUPPLY MODULE