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Oriel Deuterium Lamp Power Supplies



68840 Deuterium Lamp Power Supply with Series Q Lamp Housing.

- Operates most Deuterium lamps
- Low cost OEM version and fully featured version
- Current is adjustable from 200 mA to 550 mA
- Highly regulated, <0.5%light ripple

We offer highly regulated, constant current power sources to run most 30 W deuterium lamps. We offer two models of supplies:

- **Fully Featured Model**

The 68840 has a number of user features, and is current adjustable from 200 to 550 mA

- **OEM Model**

For fixed current applications, this model is a more economical alternative

Specifications

	68942 Fully Featured	68942 OEM
AC Input	95 - 132/190 - 264 VAC, 50/60 Hz	95 - 132/190 - 264 VAC, 50/60 Hz
Output Current	300 mA	300 mA
Ripple with ohmic load	±0.05 %, max	±0.05 %, max
Light Ripple (peak to peak) *	<0.5 %	<0.5 %
Line/load regulation	±0.01 %	±0.01 %
Output Voltage Range	60 - 90 VDC	60 - 90 VDC
Pre-ignition voltage	100 V, ±5 %	100 V, ±5 %
Ignition Voltage	570, ±30 V peak	570, ±30 V peak
Max. temperature	10 - 40 °C	10 - 40 °C

* When an Oriel Lamp is operated in appropriate Oriel Lamp Housing from Newport.

Ordering Information

Model	Description
68840*	68840 Deuterium Lamp Power Supply
68942	OEM Deuterium Lamp Power Supply
68842*	Light Intensity Controller Cable (Connects 68840 Deuterium Power Supply to 68950 Light Intensity Controller)

* The 68842 Cable must be purchased in order to connect the 68840 Power Supply to the 68950 Light Intensity Controller.

Tech Note

Deuterium lamps require filament power and anode-cathode voltage of at least 350 V to initiate the discharge and then, for best performance, carefully regulated discharge current. The 68840 and 68942 are constant current power supplies. Until the deuterium lamp reaches thermal equilibrium, the radiated output varies. After approximately 10 to 15 minutes, the output will be almost completely stable. For applications requiring extreme stability, an additional 15 to 30 minutes of warm-up may be required. This is particularly important when using the 63345 Calibrated Lamp (see page 72).

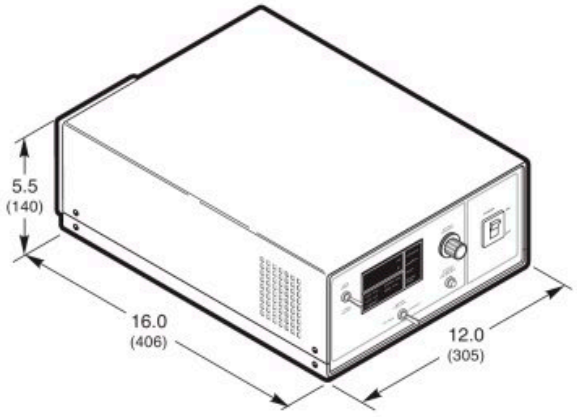


Fig. 1 Dimensional diagram of 68840 Deuterium Lamp Power Supply.

Note: Please check our product web pages for more technical information at www.newport.com.

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