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Deuterium Lamp Power Supply



The 68942 Deuterium Lamp Power Supply by Oriel Instruments® safely ignites and operates Oriel'sDeuterium Lamps with high stability. Many of a deuterium lamp's superior performance characteristics such as high stability, low drift, and long lifetime are the result of using a highly regulated power supply during the lamp's ignition and operation. The 68942 is a compact, economical, and easy to operate solution for the requirements of powering a deuterium lamp.

- Highly regulated power supply for Deuterium lamps
- Safely Ignites and operates Deuterium lamps
- Compatible with Q Series lamp housing and rod mounts

Ordering Information

Compare	Model	Drawings, CAD & Specs	Availability	Price
 (/p/68942)	**68942 (/p/68942)** Power Supply, Deuterium Lamps, 30 Watts		**6 Weeks**	**$1,582.00**

Features

Ignite and Operate Deuterium Lamps

Deuterium lamps require filament power and anode-cathode voltage of at least 350 V to initiate the discharge and then, for best performance a carefully regulated discharge current. 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.



Various Deuterium Lamps

Highly Regulated Power Supply

The 68942 operates deuterium lamps in constant current mode. Oriel's deuterium lamps typically require 300 mA of input current. Users can adjust the lamp supply current of the 68942 up to 550 mA to achieve maximum brightness at the cost of decreased lifetime. The current supplied to the lamp is highly stable, allowing Oriel's deuterium lamps to keep light ripple under 0.2% to 0.5% peak to peak maximum.

Accessories

Recommended Lamp Housing

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