



Xenon Flash Lamp XeCQ-LF, XeCQ-LFHP

This product data sheet describes a Xenon bulb type flash lamp with an integrated high voltage power supply and ellipsoidal mirror with provision for a vacuum flange. The system will produce a minimum of 0.5 watts total optical power from 160 to 4000 NM with a minimum of 0.2 watts from 160 to 400 NM. It is an easy-to-use source of irradiance greater than a conventional 50 watt D2 lamp. The adjustable ellipsoidal mirror facilitates interfacing to a vacuum chamber by enabling the focused spot of the plasma to be adjusted from a few cm to more than 100 cm. available. The –LF model operates up to 15 W input power and the –LFHP model up to 100 W input power (at 70 to 260 V 50/60 hz).

Features:

- Xe/Suprasil replaceable lamp
- Unit complete with all power supplies required for operation
- Lamp optical conversion efficiency as great as 15%
- 15 watt high voltage power supply integrated into shielded housing
- Ellipsoidal mirror with adjustable focus
- Operation from 28 V/1 A power supply
- Colour temperature > 14000 Kelvin
- Adapters to Conflat® vacuum flanges and UV fiber-optic cable

Electrical Characteristics:

- 40 watt Suprasil envelope lamp bulb
- -LF High voltage supply - 400 V output; -LFHP -1000 V
- Maximum input of 28 V
- Pulse width < 2 microseconds
- Pulse jitter typically less than 200ns
- Output peak to peak amplitude jitter typically 5%
- Internal oscillator provides repetition rate of 0 to 100Hz
- Switch selectable external trigger
- High Power model: power supply 1000 V output high speed air cooling

Optical and Mechanical Characteristics:

- Lamp electrode spacing of 0.1cm
- Ellipsoid mirror aperture of 1 cm
- Distance between foci of 1.6 cm
- Spot diameter minimum of 0.2 cm and a maximum of 6.0 cm
- Adjustable spot distance of 3 cm to 100 cm



Modulation	Internal oscillator or TTL (5V logic) input			
Electrical	min	typical	max	units
Input Power -LF	5	25	30	Watts
Input Power -LFHP				
Input voltage both models	70	115	260	VAC
Input line frequency both models	50	60	65	Hz
Mounting flange both models	Optional 4.5 or 6 inch CF style mounting flange			
Cooling both models	Forced air cooling			
System both models	System includes power supply, EMI shielded enclosure, vacuum flange, power supply and calibration			



