

High-Intensity Discharge Lamp

High-intensity discharge (HID) lamps produce light by means of an electric arc between tungsten electrodes housed inside a translucent or transparent fused quartz or fused alumina arc tube. Once the arc is started, it heats and evaporates the metal salts, which then greatly increase the intensity of the light produced by the arc and reduce its power consumption.



Product Overview

High-Intensity Discharge (HID) Technology

High-Intensity Discharge lamps are advanced electrical gas-discharge lighting solutions that utilize an electric arc between tungsten electrodes within a fused quartz or alumina arc tube. These lamps are engineered for high efficiency, often outperforming standard fluorescent options by utilizing metal salts to increase light intensity while reducing power consumption. Designed for demanding environments, they provide reliable, high-output illumination suitable for both specialized and large-scale lighting applications.

Technical Details

Arc Tube Construction	Fused Quartz, Fused Alumina
Gas Fill Composition	Argon, Xenon, Metal Salts

Common Applications

Primary Use Cases

- Automotive Headlamps
- Sports Arenas
- Street Lighting

Available HID Variants

- Mercury-vapor lamps
- Metal-halide lamps
- High-pressure sodium lamps
- Xenon arc lamps