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# DATA SHEET Neon Power Supplies
# 5060-D 120 and 5060-D 277

- Two models, 120v. and 277v.
- Equivalent in performance to a 5000v 60ma magnetic neon transformer
- Dimmable with ***3-Wire Triac Control*** (Black/Line, White/Neutral and Red/Dimmed Hot). Compatible with Lutron NF-10 Fluorescent Dimmers or other similar dimming controls.
- Secondary supplied with 59" of silicone GTO 10 integral sleeve.
- Ground Connection via Mounting Foot
- Minimal variation in current load with different tube lengths
- Primary connection, 1/2" female conduit nipple

Electrical data:

| | | *5060D 120* | *5060D 277* |
|---|---|---|---|
| ***Input:*** | Nomial Voltage | 120 Volt | 277 Volt |
| | Input Voltage Range | 110V-130V | 267V-288V |
| | Current | 1.5 Ampere | 0.65 Ampere |
| | Frequency | 50/60 Hertz | 50/60 Hertz |
| | Power | 90 Watt | 90 Watt |
| | Normal Power factor | ≈ 0.6 | ≈ 0.6 |

| | | |
|---|---|---|
| ***Output:*** | Voltage | 4 kV rms max. |
| | Nominal load current | 45 mA |
| | Short circuit current | 52 mA |
| | Frequency | 25 kHz |

Performance:

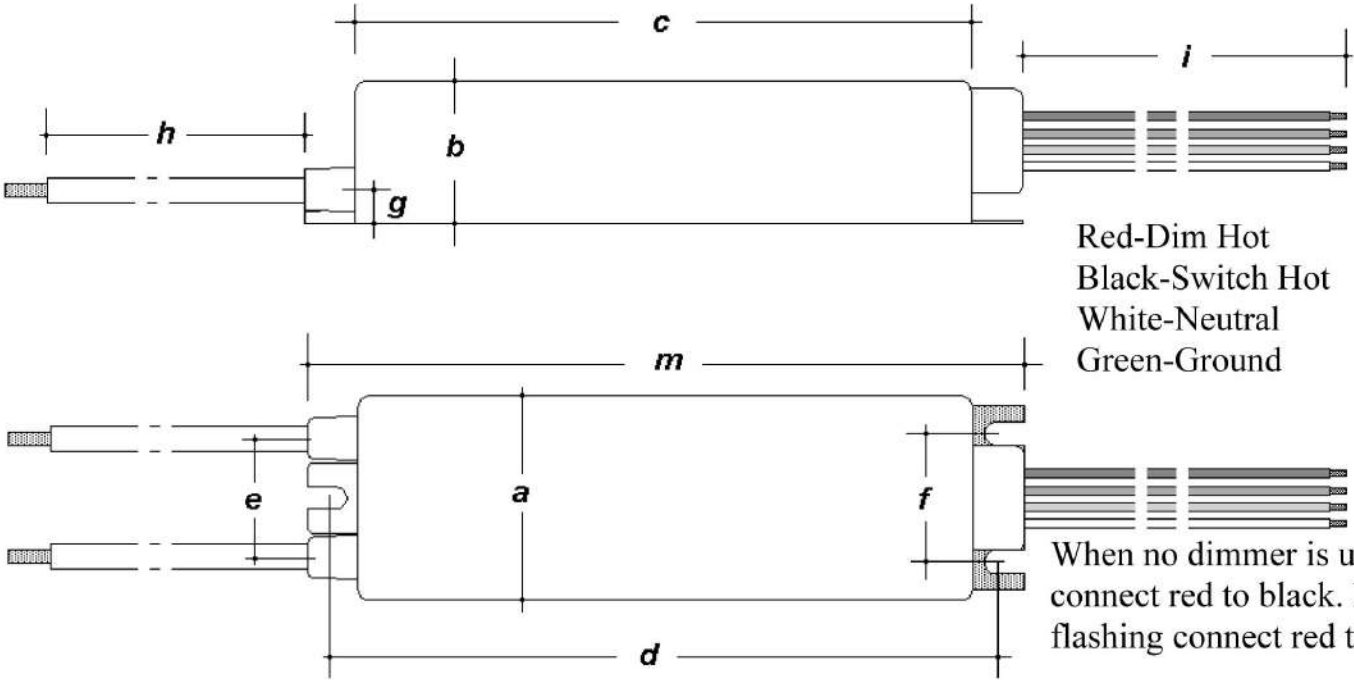
- Self-adjusting
- Supplied with ***open circuit protection, ground fault protection*** *and* ***protection against overloading***
- Maximum ambient temperature 104°F

Loading Chart (in feet)

| Diameter | 10mm | 12mm | 15mm | 18mm | 20mm | 25mm |
|---|---|---|---|---|---|---|
| Argon/hg | 16 | 18 | 20 | 23 | 24 | 25 |
| Neon | 12 | 14 | 16 | 18 | 19 | 20 |

(Deduct one foot per pair of electrodes)

(over)




Red-Dim Hot
Black-Switch Hot
White-Neutral
Green-Ground

When no dimmer is used connect red to black. For flashing connect red to flasher.

| a | b | c | d | e | f | g | m | h | i | weight |
|---|---|---|---|---|---|---|---|---|---|---|
| 1.97 | 1.38 | 5.98 | 6.38 | 1.22 | 1.06 | .31 | 6.89 | 59 | 39.37 | 23 oz. |

All dimensions are in inches

## INSTALLATION GUIDELINE

- If the power supply is close to the maximum load put a 40kΩ resistor in series with the secondary circuit. If the system stays lit the loading is correct. This test should be done before and after the installation to confirm that your installation is correct. *(The 40kΩ resistor is available for a minimal charge from your local sign supply distributor)*
- This step is very important for installations close to the limit of the power supply. The power supply has a microprocessor that senses any overload situation and immediately shuts down the power supply protecting both the power supply and your neon installation. The 40kΩ resistor insures you have a properly loaded power supply and a margin against nuisance tripping.
- Avoid extending the secondary leads beyond that supplied with the power supply.
- The power supply may be installed on a metal surface. Sides can be in contact with a metal surface.
- Power supplies must be spaced a minimum of **3/4" away** from one another.
- The distance between the lamps and parts with a different potential (other lamps, current conductors, parts connected to earth) shall be suitable for the voltage present which, at the frequencies produced by the power supply, can discharge easily through air and unsuitable insulating material.
- The material that supports the lamps must be always insulating.