



DATA SHEET Neon Power Supply 7530-CL

- Equivalent in performance to a 7,500v 38ma magnetic neon transformer. Designed for applications in channel letter signs.
- Variable frequency technology maintains a virtually constant current load independent of varying diameters or lengths of tubing.
- Thermally protected with automatic reset disconnects the supply voltage if the internal temperature of the power supply exceeds 100 °C (220 °F).
- Secondary supplied with 40" of silicone GTO 10 integral sleeve.
- Ground Connection via Mounting Foot
- Primary connection, 1/2" female conduit nipple

Electrical data:

7530CL

| | | |
|-----------------------|-----------------------|---------------|
| <i>Input:</i> | Nominal Voltage | 120 Volt |
| | Input Voltage Range | 110V-130V |
| | Current | 1.3 Ampere |
| | Frequency | 60 Hertz |
| | Power | 85 Watt |
| | Normal Power factor | ≈ 0.6 |
| | | |
| <i>Output:</i> | Voltage | 5 kV rms max. |
| | Nominal load current | 35 mA |
| | Short circuit current | 30 mA |
| | Frequency | 20 to 30 kHz |

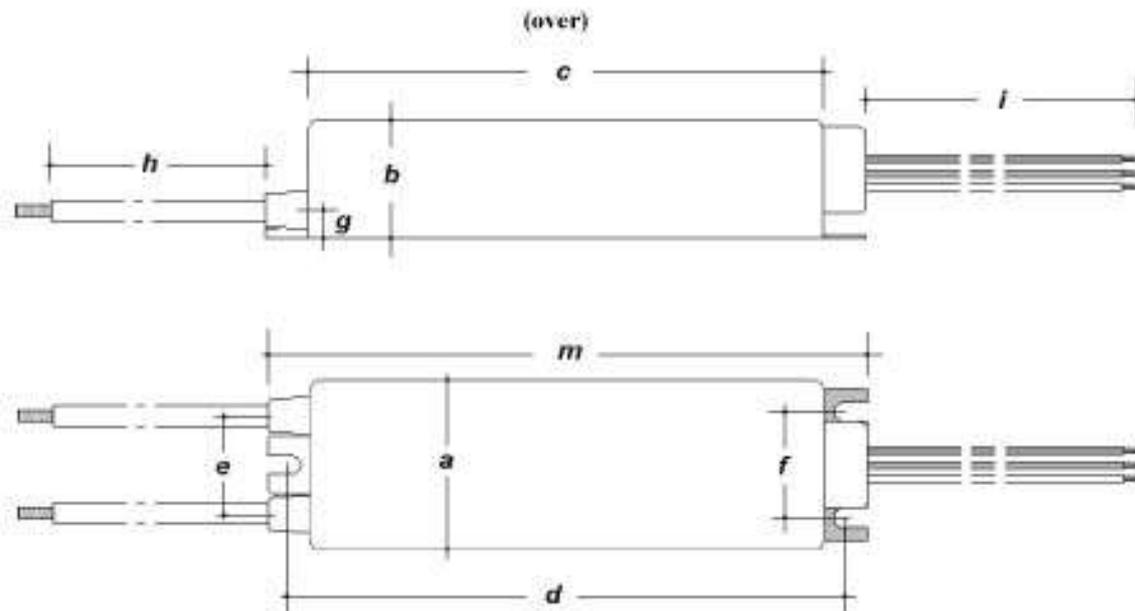
Performance:

- Constant load current
- Supplied with *open circuit protection, ground fault protection and protection against overloading*
- Maximum ambient temperature 104°F

Loading Chart (in feet)

| | | | | | | |
|----------|-----|------|------|------|------|------|
| Diameter | 8mm | 10mm | 12mm | 15mm | 18mm | 20mm |
| Argon/hg | 19 | 22 | 24 | 26 | 28 | 30 |
| Neon | 14 | 15 | 16 | 18 | 20 | 22 |

(Deduct one foot per pair of electrodes)

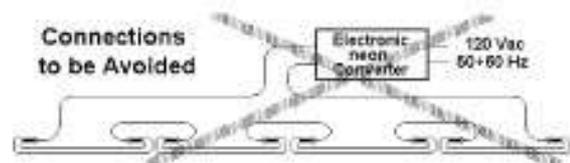
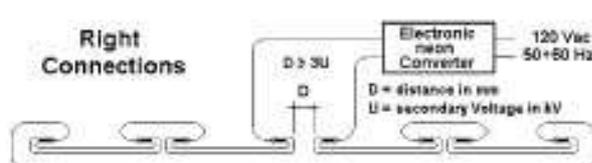


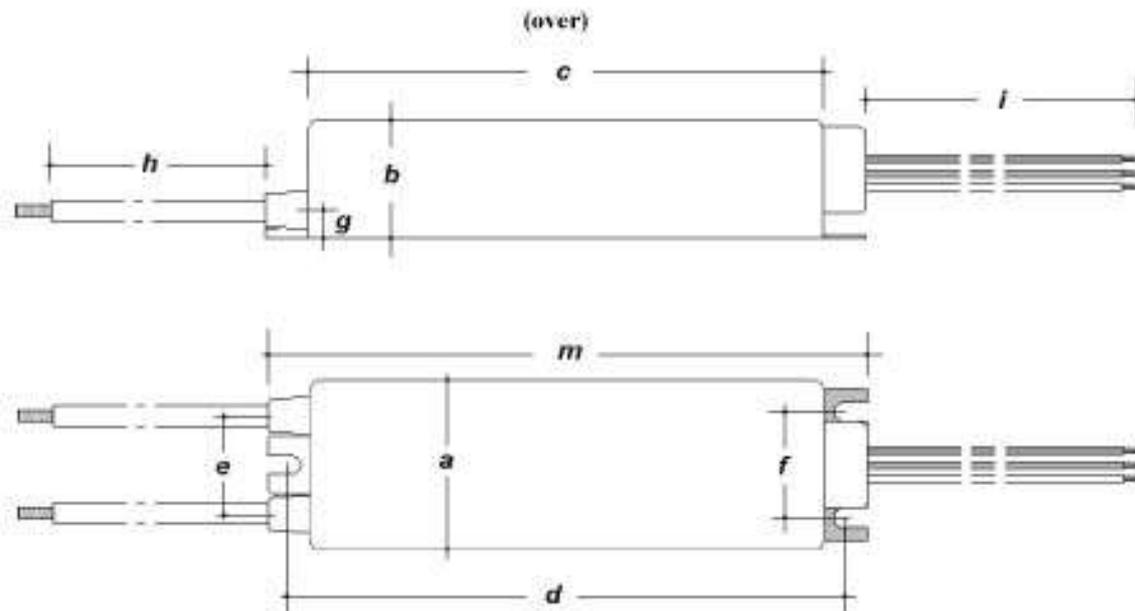
| a | b | c | d | e | f | g | m | h | i | weight |
|------|------|------|------|------|------|-----|------|----|-------|--------|
| 1.97 | 1.38 | 5.98 | 6.38 | 1.22 | 1.06 | .31 | 6.89 | 40 | 39.37 | 23 oz. |

All dimensions are in inches

INSTALLATION GUIDELINE

- If the power supply is close to the maximum load put a 35kΩ 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 35kΩ 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 35kΩ 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.





| a | b | c | d | e | f | g | m | h | i | weight |
|------|------|------|------|------|------|-----|------|----|-------|--------|
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