



Me-120-12000-30, Me-120-9000-30,  
Me-120-6000-30, Me-120-3000-30

Electronic Neon Power Supplies



**LISTED**  
NEON POWER SUPPLY  
38AT

## 1. Specifications

The ME series electronic power supplies operates as a constant current source and automatically adjust to tube length (including electrodes) from short circuit (0 length) to the maximum value listed in the footage chart.

MODEL	INPUT	OUTPUT	DIAMETER TUBING (mm)	7	8	9	10	11	12	13	15
			GAS PRESSURE	18 M.M.	17 M.M.	15 M.M.	13 M.M.	12 M.M.	11 M.M.	10 M.M.	9 M.M.
			TUBE TYPE	STANDARD LOAD LENGTH (ft)							
Me-120-12000-30	120VAC 50/60Hz 0.9A	8kV 30mA	NEON	16	18	21	25	30	35	39	45
			MERCURY	18	21	25	30	36	42	46	55
Me-120-9000-30	120VAC 50/60Hz 0.75A	6.5kV 30mA	NEON	12	13	15	19	22	26	29	33
			MERCURY	14	15	18	23	26	31	33	40
Me-120-6000-30	120VAC 50/60Hz 0.5A	5kV 30mA	NEON	7	8	9	11	13	16	17	19
			MERCURY	8	9	11	12	15	18	20	23
Me-120-3000-30	120VAC 50/60Hz 0.3A	3KV 30mA	NEON	4	4	5	5	6	8	8	10
			MERCURY	4	4	5	6	7	9	10	12

Maximum length in feet may vary according to GTO leads length and environment. Deduct 1 foot from above figures for each pair of electrodes. Footage for mercury filled tubes is based on operating temperatures above 4°C (40°F). Deduct 25% of footage for operation below 4°C (40°F).

Do not exceed the maximum tube length described in the "LOAD LENGTH" footage chart (overload), because the performance and the life of the power supply will be reduced.

## 2. Installation

1. Installation shall be in accordance with the applicable electric codes and applicable sign regulations.
2. The power supply can be installed on a metallic or a non-metallic surface. The Power Supply produces heat during normal operation. Therefore, install the power supply in a location which minimizes overheating. Free air flow must be allowed around the enclosure and adequate ventilation is essential for long life operation.
3. Power supply must be secured in place with two permanent fasteners (#6 screw minimum).
4. Grounding : The ground tab provided on the power supply allows you to ground all metallic parts of the sign. Remove all paint or varnish at banding point and install a star washer to insure good contact.
5. GTO covering : If a non-metallic conduit is used (e.g., High voltage covering UL recognized, CSA certified), the power supply enclosures have been designed to fit the conduit.
6. It is recommended to install the power supply in a position to make the GTO leads as short and as equal as possible. (See Fig.1)
7. Always Keep a minimum 1" (25mm) spacing between GTO and GTOs, supply leads, any metallic surface, or supply shell.
8. If more than one power supply is used to illuminate a sign :
  - 1) Keep 3 inches (75mm) between power supplies. (See Fig.2)
  - 2) Never cross GTO leads. (See Fig.3)
  - 3) Never cross GTO leads with the supply leads.

## 3. Troubleshooting

The ME series power supply is equipped with integral ground-fault protection, output over voltage, open circuit, and protection circuit as safety features.

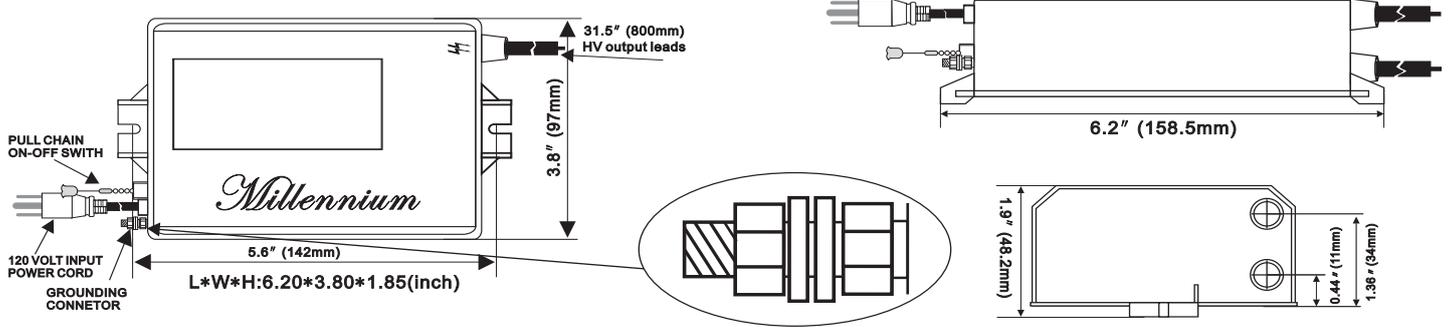
If over voltage, open circuit, ground-fault, or abnormal neon tubing occurs, the ME transformer will shut off. This may be created by defective neon tubing, disconnected neon circuit, an arcing, short circuit, electrodes to ground, or similar condition.

### If the safety features are activated:

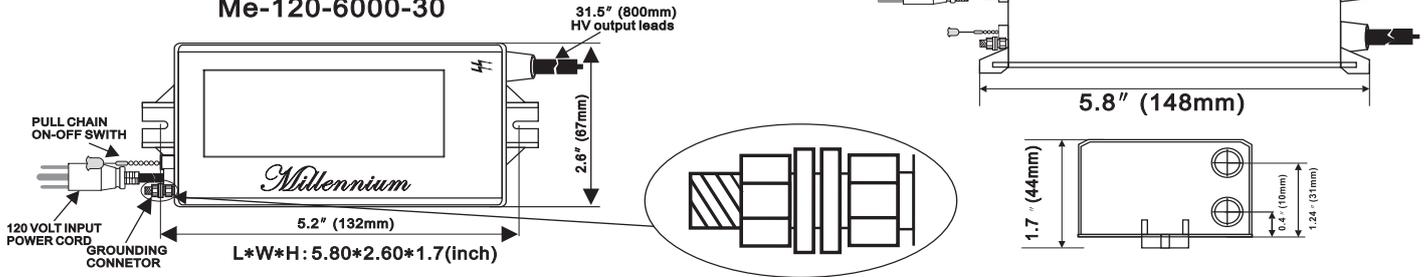
- 1) Disconnect the power cord for at least 5 seconds.
- 2) Repair secondary fault.
- 3) Reconnect the power cord and toggle pull chain switch until the sign illuminates (for multifunction models it is necessary to step through the off position of the switch).

## 4. dimensions

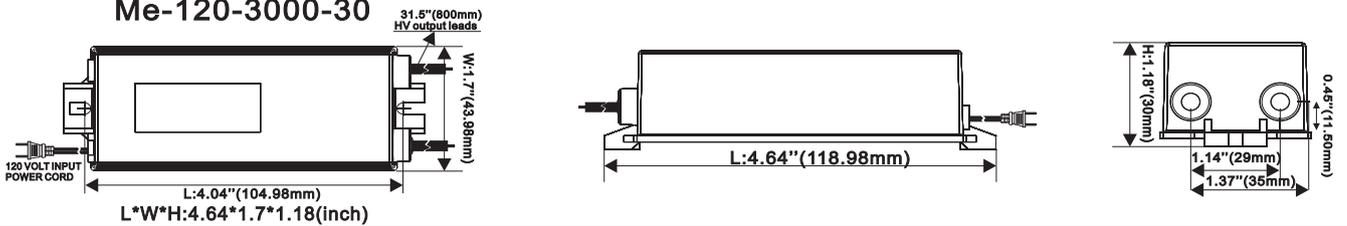
Me-120-12000-30



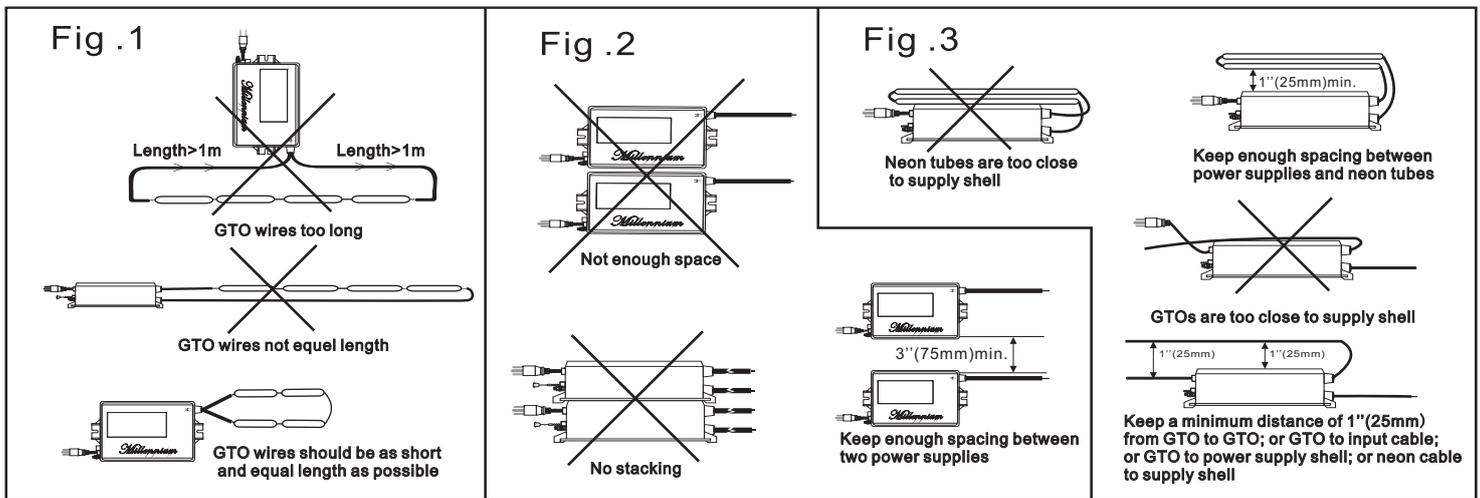
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Me-120-3000-30



## 5. Installation Diagram



## CAUTIONS

- This neon power supply is designed to be used with neon light tubing only.
- Output of the power supply is high voltage and dangerous. To avoid electrical shock, do not plug transformer into power source until all connections to the sign have been made.
- Risk of fire. DO NOT connect any part of output circuit to any grounded metal.
- Usage of any flasher, dimmer or other devices is NOT recommended. Using these devices may damage the power supply.
- Do not operate power supply without load.
- The Ground Fault Protection circuit does NOT protect against shock hazard.
- The performance of the ME series transformer may be affected if the installation requirements listed above are not met.

**WARRANTY: Hyrite will warrant against defects in material and workmanship under normal use for two years from the date of manufacturing. Hyrite will repair or exchange the defective units based on our sole discretion and the liability is limited to replacement of the defective product. We will not be responsible for shipping and installation cost incurred by the buyer. Misuse, improper installation or tampering with the units will void all warranties.**