INSTRUCTIONS

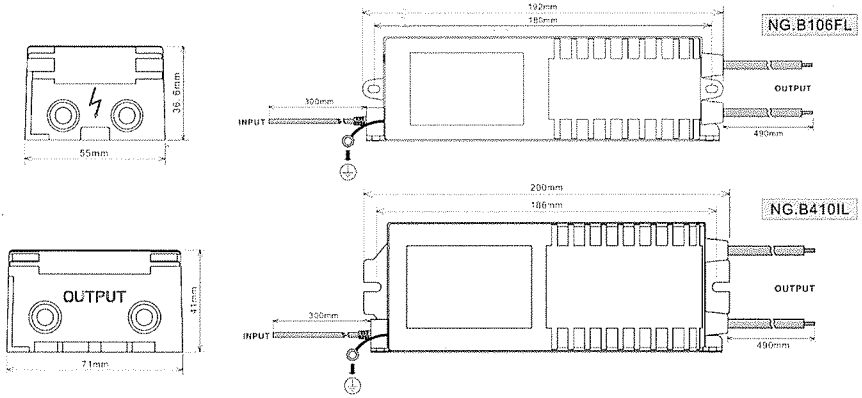
Neon Power Supplies

Coolneon®

www.gseef.com

MODEL:NG.B106FL NG.B410IL

CE



SPECIFICATION

MODEL	NG.B106FL	NG.B410IL
INPUT VOLTAGE/FREQUENCY	220V-240V,50/60Hz	220V-240V,50/60Hz
NO LOAD OUTPUT VOLTAGE	6kV	10kV
RATED OUTPUT CURRENT	30mA	30mA
RATED INPUT	55W	100W
INPUT CURRENT	0.38A	0.58A
POWER FACTOR	>0.6	>0.7
WEIGHT	0.65kg	0.9kg
PROTECTION CIRCUIT	Open circuit protection Over heat protection Earth-leakage protection circuit	Open circuit protection Over heat protection Earth-leakage protection circuit

Tube / Model / Load Length	Tube ϕ mm	7	8	9	10	11	12	13	15
	Gas Pressure (mmHg)	18	17	15	13	12	11	10	9
NG.B106FL	Tube Length Feet (Clear or red neon)	7	8	9	11	13	16	17	19
	Tube Length Feet (Mercury/Argon)	8	9	11	12	15	18	20	23
NG.B410IL	Tube Length Feet (Clear or red neon)	16	18	21	25	28	31	34	39
	Tube Length Feet (Mercury/Argon)	18	21	25	30	33	37	40	48

NOTES

1. All listed values are indicative and represent an average. Values can significantly vary due to filling pressure, Temperature, high voltage cable length, electrode type and sign material.
2. Deduct 1 foot for each Pair of electrodes from above load length figures.
3. Footage for mercury filled tubes based on operation at 4°C (40°F) or above.
4. Deduct 25% of footage for operation below 4°C (40°F).

WARNING

To reduce the risk of various hazards associated with this power supply, which if not avoided Could result in death or serious injury and/or property damage:

- Read, understand, and follow all safety information contained in this "INSTRUCTIONS" prior to installing, Using or fixing the power supply. Always ensure that the power supply is used safely. Retain these instructions for future reference.

- The use of a neon tube not recommended by the manufacturer may cause a risk of fire, electric shock or injury to persons.

To reduce the risk associated with hazardous voltage and/or fire, which if not avoided could result in death or serious injury and/or property damage:

- Installation or maintenance must only be performed by qualified service personnel Installations should comply with all national and local electric codes.
- Make sure that the operating voltage of the power supply corresponds to your local voltage.
- Do not connect neon power supply into power source until all connections to the sign have been made.
- Do not operate power supply with a damaged power cord or output GTO leads until it has been examined by a qualified service technician.
- Do not connect any part of the output circuit to any grounded parts.
- Do not disassemble this power supply yourself.
- Do not obstruct any ventilation for this power supply.
- If an earthing connection for the metallic parts of the neon tubes is necessary, a cord complying with national and local electric code should be used. Cords rated for less amperage than the national and local electrical code may result hazards.
- If an earthing connection for the metallic parts of the neon tubes is necessary, the connections should not be subject to corrosion due to electrochemical action.

INSTALLATION

Installations should comply with all national and local electric codes

CAUTION

Do not connect neon power supply into power source until all connections to the sign have been made.

Do not access the output and the neon tube until the power supply has been disconnected from the power source.

Step

1. Mount the transformer securely with the mounting slots on either a metallic or non-metallic resistance to fire surface, free airflow should be ensured to provide adequate ventilation. Connect output GTO leads to the neon electrodes. Insulate any bare wire as required by national or local electric codes.
2. (Optional) Grounding: The ground terminal provided on the power supply allows grounding metallic parts of the sign. Before connect the metallic parts of the sign to the grounding terminal, remove all paint or varnish at banding point, and install an lock washer and resilient means such as resilient washer to insure good contact.
3. Connect the unit into the appropriate power source, switch on the power source. If there is a short or open circuit, or abnormal neon tubing lighting occurred, switch off power source and do necessary repair work to the sign. Then take the step 3 again.

IMPORTANT INSTALLATION NOTES

1. It is recommended to install the power supply in such a position so as to make the GTO leads s short and as equal as possible. The overall length of the GTO leads should be less than 6 feet (2m), and always keep a minimum 11/4 inch (30mm) between each GTO and any metallic surface.
2. When using more than one power supply to illuminate a sign, please keep at least 3 inches (75mm) Between power suppliers, never cross GTO leads or cross leads with the supply leads.

NOTES

Earth-leakage protection circuit

This power supply has a built-in protection circuit specifically designed to shut off the output if a Short Circuit to Ground occurs, which maybe created by either an arc or short-circuit between cable or electrodes or similar conditions.

If the earth-leakage protection circuit is activated.

1. Switch off the power supply and disconnect the power supply from the power source.

2. Repair the fault condition in the output circuit.

3. Reconnect the power supply to the power source and switch on until the sign illuminates.

(Wechat)