



Indoor Type

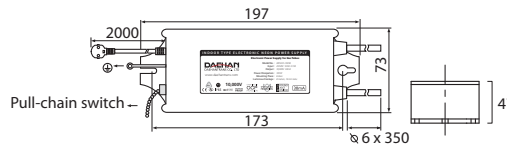


Outdoor Type

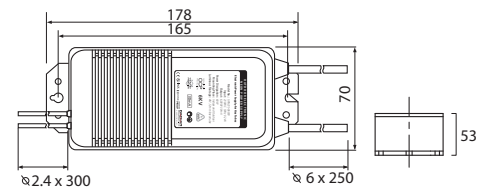
Electronic Neon Power Supplies for indoor and outdoor are highly sophisticated neon transformers which provide OCP(Open-Circuit Protection) and 90% of PF rate along with IP67 for outdoor model. Its light and compact form factor gives you easy-handling during installation.

PHYSICAL DIMENSION

10000V

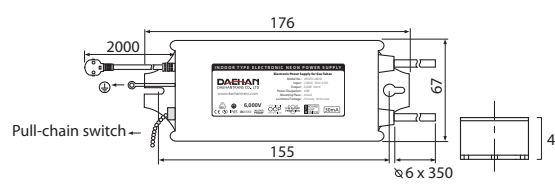


Indoor Type - 1.00Kg

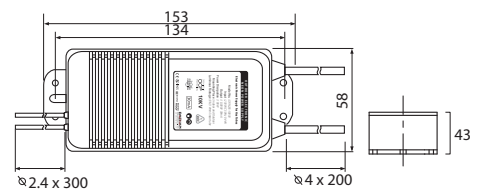


Outdoor Type - 0.45Kg

6000V



Indoor Type - 0.90Kg



Outdoor Type - 0.70Kg

SPECIFICATION FOR INDOOR TYPE

Model No.	Output Volts	Output Current	Input Voltage	Input Amps	Primary V.A.	Case Type
ARN235-10030	10000	30	220~240	0.42	100	Indoor
ARN235-06030	6000	30	220~240	0.26	60	Indoor

SPECIFICATION FOR OUTDOOR TYPE

Model No.	Volts	Output Current	Input Voltage	Input Amps	Primary V.A.	Case Type
GRN235-10030	10000	30	220~240	0.44	100	Outdoor
GRN235-06030	6000	30	220~240	0.24	60	Outdoor

LUMINOUS FOOTAGE CHART IN FEET (METER)

Tube Diameter (Millimeters)	Tube Diameter	Tube Length in Feet(in Meters)		Recommended Gas Pressure (mm/Hg)
		10000V	6000V	
		15	39 (11.89)	
Clear or Fluorescent Red, Neon	13	34 (10.36)	17 (5.18)	10
	12	31 (9.45)	16 (4.88)	11
	11	28 (8.53)	13 (3.96)	12
	10	25 (7.62)	11 (3.35)	13
	9	21 (6.41)	9 (2.74)	15
	8	18 (5.49)	8 (2.44)	17
	7	16 (4.88)	7 (2.13)	18
Mercury filled tube, Clear or Fluorescent (All colors, all applications)	15	48 (14.63)	23 (7.01)	9
	13	40 (12.19)	20 (6.10)	10
	12	37 (11.28)	18 (5.49)	11
	11	33 (10.06)	15 (4.57)	12
	10	30 (9.14)	12 (3.66)	13
	9	25 (7.62)	11 (3.35)	15
	8	21 (6.41)	9 (2.74)	17
7	18 (5.49)	8 (2.44)	18	

*All footage is based on average grade of tubing / **Deduct the length of each pair of electrodes from the above figures
 ***Add 10% to the recommended gas pressure measured in mm of Hg when the length of tube is less than 3 meters
 ****Typical maximum footage, these transformers are designed to run any footage less than the displayed amounts

DANGER! HIGH VOLTAGE PRESENT**DO NOT ATTEMPT TO ALTER OR REPAIR THIS POWER SUPPLY. THIS MAY CAUSE INJURY AND WILL VOID WARRANTY.****HAZARDOUS VOLTAGES WILL CAUSE SHOCK, BURN, OR DEATH. TURN OFF POWER BEFORE SERVICING.****SERVICING SHOULD BE PERFORMED ONLY BY QUALIFIED PERSONNEL.****IMPORTANT PRE-INSTALLATION INFORMATION**

1. All metal parts of the sign must be grounded. This power supply is a high frequency, high voltage device. Any metal parts that are in the vicinity of the neon tubing, GTO wire, or the neon power supply may become energized if left underground. Ungrounded metal parts may impart an electrical shock.
2. Never ground any high voltage wiring of the sign system.
3. Do not feed the high voltage GTO leads through metallic conduit, but each GTO leads should be run in approved sleeving.
4. Keep GTO wires at least 1 1/2 inches away from all surfaces and each other.
5. This power supply may be mounted directly inside the channel letter and/or mounted underneath the neon tubes on the back wall of the channel letter.
6. Do not mount this power supply in a manner of allowing direct exposure to the weather or where it might eventually stand in water.
7. Always mount two or more power supplies used in the same channel letter at least 12 inches apart.
8. This power supply may not be dimmed.
9. A milliampere meter should be used to properly load tubing to the power supply. Use the tube loading chart only as a general reference. Do not attempt to overload the power supply. It will trip off if significantly overloaded.

INSTALLATION INSTRUCTIONS

1. Connect primary leads only to specified input voltage on the product label.
2. The power supply's green wire must be connected to the branch circuit safety ground. Assure the furnished safety ground is traceable all the way back to the breaker panel.
3. Firmly connect the GTO leads to the tubing. Do not run GTO in metallic conduit. It may cause tripping or tube dimming. Maintain at least 1 1/2 inch clearance between the GTO and any surface. Do not splice additional GTO to existing output leads.
4. Keep all GTO leads as short as possible, especially those from the power supply to the first tubing electrodes.
5. Avoid crossing one GTO wire with another. If GTO wires must cross, cross at right angles using as large a clearance as possible.
6. When passing a GTO cable through a metal partition, use as large a hole as possible. Use approved bushings to center the wire in the partition. Failure to follow this procedure will result in premature failure of the GTO cable and eventual power supply tripping.
7. It is best to wire border in a sign tubing in a sign near the electrical center of the sign.

TROUBLE SHOOTING

1. Check the following;
 - Electrical shorts or arcing from live high voltage sign components to ground.
 - Excessive moisture captured within or near sign. Make sure the sign is properly ventilated and water does not directly enter the sign.
 - Tubing too close to metal surfaces. A 1 1/2 inch clearance is recommended.
 - Bad insulators or standoffs. Make sure they are free from corrosion and they provide a secure connection.
 - Conductive debris between high voltage connections and conductive portions of the sign. Keep sign free of dirt, insects etc.
 - GTO leads too close to metallic sign parts. A 1 1/2 inch clearance is recommended.
 - Power supplies mounted too close to each other in the same channel letter (12 inch separation recommended)
 - Poor grounding to the power supply.
2. Check for broken or otherwise degassed tubing
3. Are all sign connections robust?

FEATURES*Specifications subject to change without notice*