

UNT912N3G SERVICE PRO

Self-adjusting, outdoor, type 2, magnetic neon transformer

Specifications

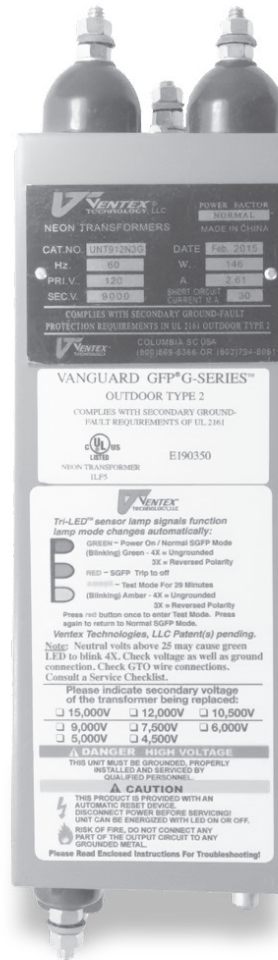
SKU.....	67260
Dimensions L x W x H.....	9.85" x 3.625" x 3.875"
Weight.....	17 lbs. / 272 oz.
Input voltage.....	120V
Primary power draw.....	2.61 A
Output.....	30mA
Replaces.....	4,000 V; 6,000 V; 7,500 V; 9,000 V
Warranty.....	3-year product warranty



Scan QR code
for video comparison of Ventex
transformers vs competing
transformers

**Coollest
transformer on
the market**

**Epoxy resin
fill, not tar**

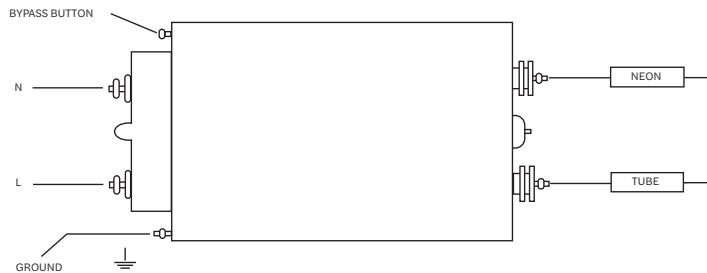


**Solid copper
windings**

**Balanced
mid-point
return
terminal**

Wiring Methods

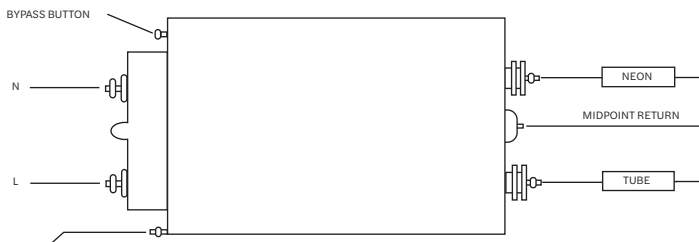
Standard series wiring method



Virtual wiring method



Midpoint return wiring method



Specifications subject to change without notice.



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Wiring Guide

The UNT series is a universal transformer and can be used as a replacement for individual 30mA transformers. Available in 120 volts.

All UNT Tank® Service Pro™ neon transformers come with a secondary ground fault protection bypass switch. This feature will aid the service technician in troubleshooting secondary side installation problems by temporarily disabling the secondary ground fault protection for up to 29 minutes. After 29 minutes, the SGFP circuit reverts to normal mode while the unit remains on. Turn the power "OFF" and then "ON"; the SGFP is now restored automatically.

Our unique Tri-LED sensor lamp gives the user a visual indicator for easy operation. The transformer signals function mode changes automatically: green (on); red (SGFP trip to off); and amber (SGFP bypass). Blinking green: 3 times = reversed polarity; 4 times = ungrounded.

Replace the transformers with the following voltage ratings:

- UNT1512N3G: 10,500 – 15,000 volts
- UNT912N3G: 4,500 – 9,000 volts

Be sure to:

- Mount transformer securely. Use star washer to bond base plate to sign enclosure.
- Polarized transformer, line, and neutral are marked as required by UL.
- A proper ground should be present and connected to the terminal marked.
- Make sure the identified Midpoint Return ("RETURN") terminal is not connected to any ground.
- First, determine that power is removed from transformer if ground fault occurs. The transformer will automatically make three (3) attempts within 10 seconds to reset.
- See recommended secondary wiring methods on page 1, and select method best suited for your application. Remember, keep length of GTO from transformer to first connection as short as possible.
- Outdoor Type 2 transformer – an additional metal enclosure is required for all locations.

Revised Luminous Tube Chart

Transformer size specifications		Normal average number of feet of tubing operated													
Open circuit secondary voltage (Volts)	Short circuit secondary current (mA)	Red neon, clear fluorescent tube size, millimeters							Mercury-filled tubes, clear or fluorescent all colors for all applications tube size, millimeters						
		15	14	13	12	11	10	9	15	14	13	12	11	10	9
15,000	60	60	54	50	46	43	40	38	72	65	60	55	51	48	45
	30	60	54	50	46	43	40	38	72	65	60	55	51	48	45
12,000	60	60	54	50	46	43	40	38	55	50	46	42	39	37	34
	30	60	54	50	46	43	40	38	55	50	46	42	39	37	34
10,500	60	60	54	50	46	43	40	38	48	43	40	37	33	30	27
	30	60	54	50	46	43	40	38	48	43	40	37	33	30	27
9,000	60	60	54	50	46	43	40	38	40	36	33	31	29	28	25
	30	60	54	50	46	43	40	38	40	36	33	31	29	28	25
7,500	60	60	54	50	46	43	40	38	33	30	28	26	24	23	21
	30	60	54	50	46	43	40	38	33	30	28	26	24	23	21
6,000	60	60	54	50	46	43	40	38	27	25	23	21	19	18	17
	30	60	54	50	46	43	40	38	27	25	23	21	19	18	17
5,000	60	60	54	50	46	43	40	38	22	20	18	17	16	15	14
	30	60	54	50	46	43	40	38	22	20	18	17	16	15	14
4,000	60	60	54	50	46	43	40	38	18	16	15	14	13	12	11
	30	60	54	50	46	43	40	38	18	16	15	14	13	12	11
3,000	60	60	54	50	46	43	40	38	13	12	11	10	9	9	8
	30	60	54	50	46	43	40	38	13	12	11	10	9	9	8
Recommended gas pressure MM/Hg		9	10	10	11	12	13	15	9	10	10	11	12	13	15
Revised based on (1) average grade of tubing, (2) correct gas pressure, (3) High Voltage Cable (GTO 15) restricted to length of cable of transformer, (4) primary voltage supply at 120 volts ±10%.		The above chart is a guideline. More accurate data can only be obtained if you load by instrument. An A/C millimeter (0-75 mA) can be obtained from your nearest Ventex distributor.							Deduct approximately one (1) foot from the above figures for each pair of electrodes. Add 10% to the recommended gas pressure measured in MM/Hg when the length of the tube is less than ten (10) feet.						

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