The World's Leading Electronic Power Supplies for Neon Lighting
Introducing the next step forward in technology!

Ventex “Generation III” UL 2161 Listed Products — Technology so advanced, no other neon power supply or transformer even comes close in performance and reliability to Ventex Generation III units. With new exclusive Ventex “Triple-Shot”, Surge and Brownout protection, Generation III technology does more than any other electronic neon power supply or transformer to keep your signs on and protect your investment.

■ “Triple-Shot” Protection — Automatically turns on up to three times for intermittent problems to resist spurious trips.
■ Surge Protection — Clamps primary incoming voltage spikes on outdoor CL units up to 2500 joules energy spike to prevent internal damage due to over voltage and surges.
■ Brownout Protection — Eliminates false tripping due to dips in primary voltage.

In addition, the proven “Generation II” technological breakthroughs are still incorporated into each and every “Generation III” unit to ensure maximum performance.

■ LALR (Line and Load Regulation) — Automatically maintains consistent brightness between letters. Line and Load regulation means the smallest letter “i” is as bright as the largest letter “W”.
■ SST (Soft Start Technology) — Combined with Ventex’s “Triple-Shot” virtually eliminates nuisance tripping on start-up. Ventex neon power supplies detect the higher strike voltage and automatically compensate to reduce false tripping.
■ PDS (Phase Detection System) — Compares Load vs. Capacitance Current to provide full GFI protection and eliminate most false tripping.

Greater Energy Savings — Ventex standard HPF (High Power Factor) electronic neon power supplies draw minimal input current which lowers energy consumption. Ventex units can save up to 66% of the energy used by standard electromagnetic neon transformers. Lower input current means you can put up to seventeen fully loaded VT 9030CL-120 units on a single 20A circuit. Ventex neon power supplies are comparable to LED systems in energy consumption for a fraction of the cost!

Features Built Into All Generation III Ventex Products —
■ UL 2161 Listed, CUL Approved
■ Self-adjusting output voltage
■ Line & load regulated for consistent mA output
■ Triple-Shot Technology
■ Brownout protection
■ LALR, SST and PDS circuitry
■ High Power Factor / High Efficiency Designs
■ Maximum overload shutdown protection
■ Open circuit and ground fault protection
■ Patented active anti-migration circuitry
■ No neon bubbling
■ Built-in GTO grommets to accept GTO sleeving
■ Grounded mounting foot
■ Conforms to standard footage charts
■ Requires no special tube processing
■ Units are flashable (with external controller)

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CL Outdoor Generation III Models

Designed Especially for Channel Letters — Ventex’s UL 2161 CL family of neon power supplies are engineered to make channel letter construction and installation easier, faster, and economical. With exclusive Ventex Generation III electronics you eliminate most installation problems — your signs will stay running through transient voltage spikes or brownouts! Plus, Ventex’s High Power Factor circuitry will save users up to 66% on energy costs over traditional electromagnetic transformers.

Save Manufacturing Materials and Labor — The low profile design and lightweight of Ventex CL Neon Power Supplies combine to reduce channel letter material costs and make construction faster. At only 1.5 inches high, Ventex CL Neon Power Supplies are low enough to fit under the neon tube using standard 1.75” supports, allowing 5” can depths.

Cut Installation Costs by Up to 30% — Letters built with Ventex CL Neon Power Supplies reduce material and labor cost over remote installations or standard electromagnetic transformers. With Ventex’s low profile and simple GTO wiring method, letters can be assembled completely in-house, tested, shipped and the installer never has to touch the glass.

Reduce Inventory — Stock fewer transformers. All Ventex neon power supplies are self adjusting for voltage. Just two to three Ventex CL units can replace up to sixteen electromagnetic neon transformers.

Indoor Generation III Models

Advanced Performance — Ventex Indoor Neon Power Supplies are your first and only choice for indoor neon signage and decoration. With exclusive Generation III power supplies ranging from 4kV to 12kV, Ventex offers the most technologically advanced neon power supplies available.

User Friendly — Ventex makes it easier for you to create your best neon signage. Smaller, light weight designs allow for simple and quick installation. And Ventex’s full 35mA makes your neon signs crisper, brighter and uniform intensity. With several dimming models, you can even tailor the intensity to any environmental situation.

Reliability — Ventex Indoor Neon Power Supplies have been UL 2161 Listed and field proven since 1997.

Features — In response to industry requests we include 32” GTO leads, 10 foot power cord, on/off switches on all units, GTO clamping system and other standard features that a sign professional needs.

Product Scope — Ventex Indoor units are available in models from 4k to 12k in 120 or 220/240 volts including two and three level dimmable models.

Features Unique to Ventex Indoor Neon Power Supplies

■ Field proven performance since 1997
■ True 35mA output
■ 10 foot power cord
■ 4kV and 12kV dimmable models available
■ On/Off pull chain or switch
■ Available in 120VAC, 220VAC/240VAC
■ 32” GTO leads or GTO clamping

Get brighter signs, easier assembly and proven reliability with Ventex Generation III Indoor Neon Power Supplies!

Features Unique to Ventex CL Neon Power Supplies

■ Output available in 30mA and 60mA
■ Available in 120VAC, 220/240VAC and 277VAC
■ 1/2” conduit fitting for primary wiring
■ No primary polarity restrictions
■ Circuitry included for surge suppression
■ Operating temperature range -30° to 122°F (-34° to 50°C)
■ White enclosures eliminate shadows
■ Low profile 1.5” or less fits under the tube

Add it all up — Ventex Generation III CL units are a proven system for cost saving!
Ventex CL Neon Power Supplies for Outdoor Channel Letter Signs

Specifications

VT 4030CL-120  VT 4030CL-277  VT 6030CL-120  VT 6030CL-240  VT 6060CL-120  VT 9030CL-120  VT 9030CL-240  VT 9030CL-277  VT 9060CL-120  VT 9060CL-277  VT 12030CL-120

Input Voltage: 120 VAC (±10%) 277 VAC (±10%) 120 VAC (±10%) 220/240 VAC (±10%) 120 VAC (±10%) 120 VAC (±10%) 220/240 VAC (±10%) 277 VAC (±10%) 120 VAC (±10%) 277 VAC (±10%) 120 VAC (±10%)

Input Current: 0.35 A (Max) 0.2 A (Max) 0.6 A (Max) 0.3 A (Max) 1.8 A (Max) 0.9 A (Max) 0.5 A (Max) 0.5 A (Max) 1.85 A (Max) 0.9 A (Max) 1.5 A (Max)

Driving Distance: Based on standard 12mm tube. Deduct one foot from driving footages for each pair of electrodes. **Peak to peak voltage.

Neon: 1-10 ft, (0.3-3.0 m) 1-10 ft, (0.3-3.0 m) 3-16 ft, (1-4.9 m) 3-16 ft, (1-4.9 m) 3-16 ft, (1-4.9 m) 4-26 ft, (1.2-7.9 m) 4-26 ft, (1.2-7.9 m) 4-26 ft, (1.2-7.9 m) 4-26 ft, (1.2-7.9 m) 4-26 ft, (1.2-7.9 m) 4-41 ft, (1.2-12.5 m)

Mercury: 1-12 ft, (0.3-3.7 m) 1-12 ft, (0.3-3.7 m) 3-19 ft, (1-5.8 m) 3-19 ft, (1-5.8 m) 3-19 ft, (1-5.8 m) 4-31 ft, (1.2-9.5 m) 4-31 ft, (1.2-9.5 m) 4-31 ft, (1.2-9.5 m) 4-31 ft, (1.2-19.5 m) 4-31 ft, (1.2-19.5 m) 4-41 ft, (1.2-12.5 m)

Output Voltage: 100 - 4000 V 100 - 4000 V 100 - 6000 V 100 - 6000 V 100 - 6000 V 100 - 9000 V 100 - 9000 V 100 - 9000 V 100 - 9000 V 100 - 9000 V 100 - 12,000 V

Output Current**: 30 mA 30 mA 30 mA 30 mA 60 mA 30 mA 30 mA 30 mA 60 mA 60 mA 30 mA

Power Factor: High (+93%) High (+93%) High (+93%) High (+93%) Normal High (+93%) High (+93%) High (+93%) High (+99%) High (+99%) High (+99%)

Frequency: Variable Variable Variable Variable Variable Variable Variable Variable 20 kHz Fixed 20 kHz Fixed 20 kHz Fixed

Operating Temp: -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F -30° to 122°F

(-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C) (-34° to 50°C)

Dimensions

Length (A): 5.0 in. (12.7 cm) 5.0 in. (12.7 cm) 7.30 in. (18.54 cm) 7.30 in. (18.54 cm) 6.65 in. (16.89 cm) 6.65 in. (16.89 cm) 6.65 in. (16.89 cm) 6.65 in. (16.89 cm) 6.50 in. (16.51 cm) 6.50 in. (16.51 cm) 6.50 in. (16.51 cm)

Width (B): 1.80 in. (4.57 cm) 1.80 in. (4.57 cm) 1.96 in. (4.98 cm) 1.96 in. (4.98 cm) 3.0 in. (7.62 cm) 3.0 in. (7.62 cm) 3.0 in. (7.62 cm) 3.0 in. (7.62 cm) 3.15 in. (7.99 cm) 3.15 in. (7.99 cm) 3.15 in. (7.99 cm)

Height (C): 1.50 in. (3.81 cm) 1.50 in. (3.81 cm) 1.45 in. (3.68 cm) 1.45 in. (3.68 cm) 1.50 in. (3.81 cm) 1.50 in. (3.81 cm) 1.50 in. (3.81 cm) 1.50 in. (3.81 cm) 1.37 in. (3.48 cm) 1.37 in. (3.48 cm) 1.37 in. (3.48 cm)

Mounting (D): 4.50 in. (11.43 cm) 4.50 in. (11.43 cm) 6.50 in. (16.51 cm) 6.50 in. (16.51 cm) 6.12 in. (15.57 cm) 6.12 in. (15.57 cm) 6.12 in. (15.57 cm) 6.12 in. (15.57 cm) 8.13 in. (20.66 cm) 8.13 in. (20.66 cm) 8.13 in. (20.66 cm)

Mounting (E): 0.90 in. (2.29 cm) 0.90 in. (2.29 cm) 0.94 in. (2.39 cm) 0.94 in. (2.39 cm) 1.55 in. (3.94 cm) 1.55 in. (3.94 cm) 1.55 in. (3.94 cm) 1.55 in. (3.94 cm) 1.75 in. (4.45 cm) 1.75 in. (4.45 cm) 1.75 in. (4.45 cm)

Weight: 14.0 oz. (397 gr) 14.0 oz. (397 gr) 23.0 oz. (652 gr) 23.0 oz. (652 gr) 34.0 oz. (964 gr) 34.0 oz. (964 gr) 34.0 oz. (964 gr) 34.0 oz. (964 gr) 52 oz. (1475 gr) 52 oz. (1475 gr) 52 oz. (1475 gr)

Primary Leads: 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm) 36 in. (91.4 cm)

O/L Leads: 24 in. (60.9 cm) 24 in. (60.9 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm) 32 in. (81.3 cm)
Great for small signs, up to 12 feet of glass!

VT 5520-120F & VT 5520A-120F are indoor/outdoor UL Type 2 units!

Three levels of lighting 100%, 65%, & 45%!

Exclusive GTO Clamping System!

Ventex Neon Power Supplies for Indoor Uses

VT 4030-120
VT 5520-120
VT 5520-120F
VT 5520A-120F
VT 6030-120 & VT 61030-240
VT 9030-120 & VT 9030D-120
VT 12030-120 & VT 12030D-240
VT 9030D-120 & VT 9030D-240
VT 12030D-120

 VT 5520A-12F features 18" external leads for flashing!

VT 5520-12F features 18" flying leads for hard wiring!

Three levels of lighting 100%, 65%, & 45%!

Two levels of lighting 100% & 65%!

Exclusive GTO Clamping System!

VT 4030-120 VT 5520-120 VT 5520-120F VT 5520A-120F & VT 6030-240 & VT 9030-240 & VT 9030D-240 VT 12030-240 VT 12030D-120

Dimmable
VT 9030D-120 & VT 9030D-240

VT 6030-120 & VT 61030-240

Input Voltage: 120 VAC (±10%), 50/60 Hz

Input Current: 0.35 A (Max)

Input Voltage: —

Input Current: —

Input Voltage: 120 VAC (±10%), 50/60 Hz

Input Current: 0.6 A (Max)

Input Voltage: 220/240 VAC (±10%)

Input Current: 0.3 A (Max)

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Input Current: 0.3 A (Max)
<table>
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<th>Model Number</th>
<th>Type</th>
<th>Secondary Voltage</th>
<th>Current</th>
<th>Tube Size in Millimeters</th>
<th>Tube Size in Millimeters</th>
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<td>20mA</td>
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<td>15mA</td>
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<td>15mA</td>
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Recommended Gas Pressure mm/Hg

16 15 14 12 11 10 9

WARRANTY: Ventex Technology, Inc. ("Ventex") warrants products purchased from Ventex shall be free from defects in material and workmanship and such products shall operate in accordance with specifications or assented to in writing by Ventex, at the time of sale, under normal, proper use and operating conditions. This warranty shall remain in effect for the earlier of one (1) year from date of purchase or two (2) years from date of manufacture. If a product is defective, it will be repaired or replaced at the sole discretion of Ventex. Ventex’s liability on any claim shall never exceed the purchase price of the specific product which gives rise to the claim. The Aforementioned is in lieu of all warranties, expressed or implied, including, but not limited to, any warranty of merchantability or of fitness for any particular purpose. In no event shall Ventex be liable for consequential, incidental, indirect or special damages or liability, including, but not limited to, loss, injury, death, or damage, or expenses incurred, irrespective of how they occur. There are no warranties, obligations and/or liabilities on the part of Ventex, whether for products, services or otherwise, which extend beyond the description mentioned in this document. No employee or representative of Ventex or any company or group that is affiliated with Ventex in any way, or to grant any other warranty. No employee or representative of Ventex shall be deemed to imply, any continuing or repeated warranty thereof. Product specifications are subject to change without notice. Consult our Internet site at www.ventextech.com for the most up to date product information.