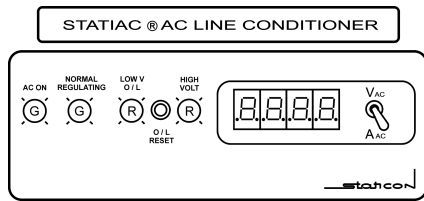
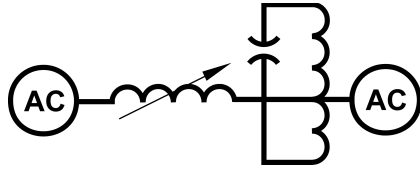




Clean, sine-wave AC power ensures a high availability of mission-critical safety devices, controls, alarms, switchgear, instrumentation, and computers. **StatiVolt Line Conditioners** are designed and built for decades of robust, industrial duty and field serviceability. Time-proven for 40 years.



| AC kVA 1ph | Vac 1 phase | Eff. % |
|---------------|----------------|-----------|
| 1.2 | 120 | 85 |
| 3.0 | 120 | 85 |
| 5.0 | 120, 240 | 88 |
| 7.5 | 120, 240 | 88 |
| 10.0 | 120, 240 | 90 |
| 15.0 | 120, 240 | 90 |
| 20.0 | 120, 240 | 90 |
| 25.0 | 120, 240 | 90 |
| 30.0 | 120, 240 | 90 |
| 40.0 | 120, 240 | 90 |
| 60.0 | 120, 240 | 90 |

Features

Reliability by Design

- Pure sine-wave AC power
- Natural convection cooled
- 30 year design life

Protection

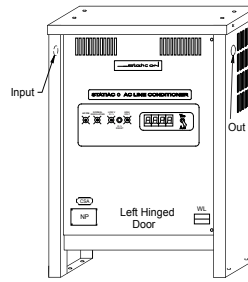
- Fail-safe output current limiting
- Optional circuit breakers
- Transformer isolation (option)
- Fail-safe output V control
- Inherent surge rejection

Versatile Functions & Options

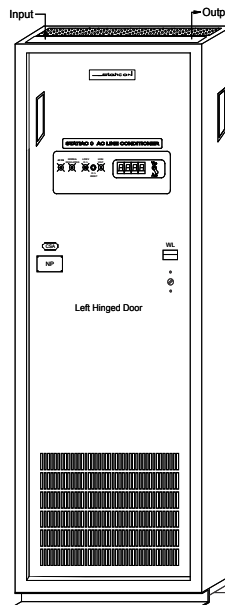
- Transformer Option
- Input / output breaker options
- Manual bypass switch option
- Ethernet status PLC
- Extra input surge protection

Warranty & Service

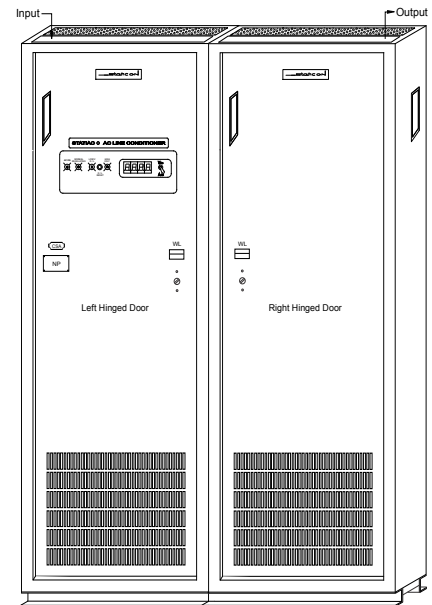
- 3 year full warranty
- 2 year optional extended warranty
- Fully field serviceable
- 25 year parts availability



W & B Cabinets
1.2 - 3 kVA



F1 Cabinet
5 - 30 kVA



F2 Cabinet
40 - 60 kVA

Contents

| | |
|------------------------|---|
| LC Specifications | 2 |
| 1 Phase LC Cabs | 3 |
| Model Numbers, Options | 4 |





Line Conditioner Specs

Power Conditioning Design

- Regulation, filtering & conditioning
- Tuned ferro-resonant output
- Pure sine-wave AC power

Output Control

- Fail-safe, closed loop control
- High Speed electronic V sensing
- Magnetic shunt regulation

Steady-State Vac Regulation

- 1% (full load, -10% to +10% AC V)
- 2% (full load, -30% to +20% AC V)
- ≤ 10% (full load, -30% to +20% AC V)
- ≤ 15% (full load, -40% to +25% AC V)

Overload Capacity

- 125% 30 min, 150% 1 min, 200% 16 ms

Annunciation & Meters

- Standard annunciation (each phase):
 - V+A AC Meter digital, 2% accuracy
 - AC On green LED
 - Normal Reg. green LED
 - Low V O/L red LED, dry contacts
 - High V red LED, dry contacts
- Contacts are form 'C' contacts rated: 0.6A @ 120 Vac and 2A @ 30 Vdc

Brownout Coverage

- ½ to 1 cycle (8-16 ms) depending on load characteristics and point of outage

Protection

- I limiting set to start at ≈ 150% of full load
- Transformer / electrical isolation option
- AC input breaker option
- AC output breaker option

Output AC V Adjustment Range

- ± 10% of nominal (± 5% regulator adjust, ± 5% transformer tap adjust)

Dynamic AC V Response

- ±5% for 50% resistive step-loads
- ±10% for 100% resistive step-loads
- Recovery < 17 ms (50% step-load)

Audible Noise

- 55-65 dBA (at 1 m, rating dependent)

Output Distortion & Noise

- THD is < 6% (phase-neutral)
- THD < 3% option
- 120 dB common mode noise rejection
- 60 dB transverse mode attenuation

Surge Tolerance

- Inherent I / O surge protection

Electromagnetic Interference

- Conducted / radiated EMI within CSA C108.8 & FCC Part 15 Class B limits

Wiring

- Stranded 16 AWG control wires
- Plastic sleeve-type wire markers
- Wire (≤ 10 AWG) connection ferrules

Cabinets

- CSA / NEMA type 1, IEC 60529 IP 20
- Front accessible, side / top cable entry
- 14 / 10 gage steel panels / mounts
- Powder-coated, baked enamel finishes

Environmental Requirements

- Natural convection cooled: top, side, rear clearances required for air flow.
- -20°C to +40°C continuous operation
- RH < 95% non-condensing

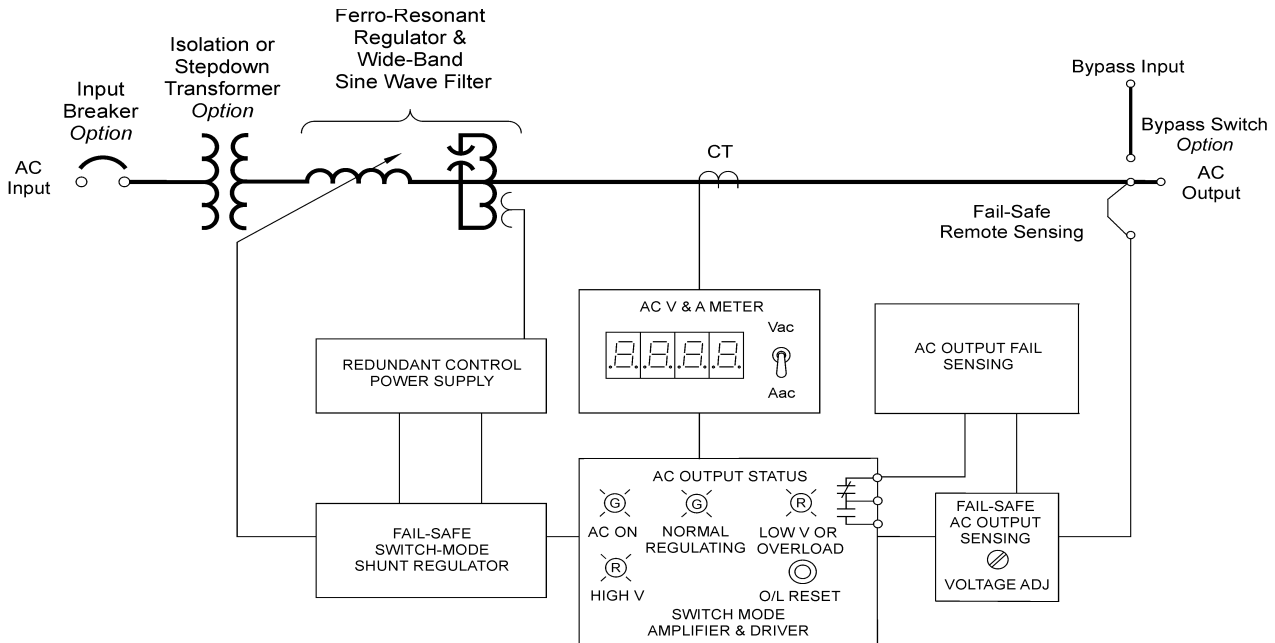
Reliability

- MTBF is 300,000 k hrs 1Ø, 100 k hrs 3 Ø
- MTRR is 1 hour (spares on / near site)

Design & Test Standards

- CSA SPE-1000 inspected & approved
- Built to CSA C22.2 No. 107.1
- Magnetics designed for Class H, 180°C

Single-Line Diagram with Control Functions

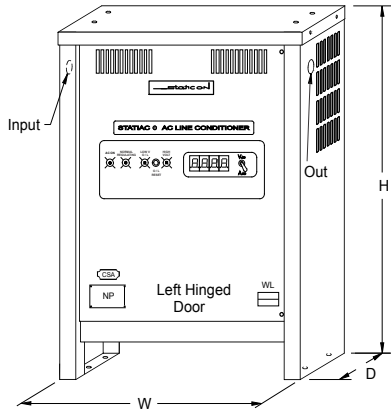


AC Voltage Regulator & Status Module





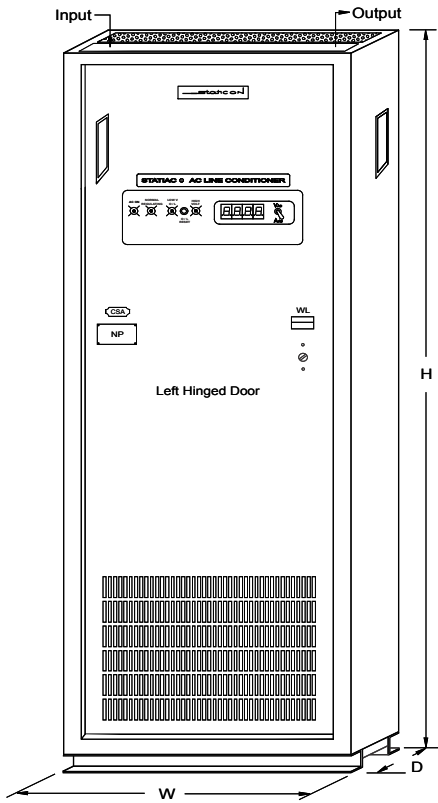
1Ø LC Cabinets



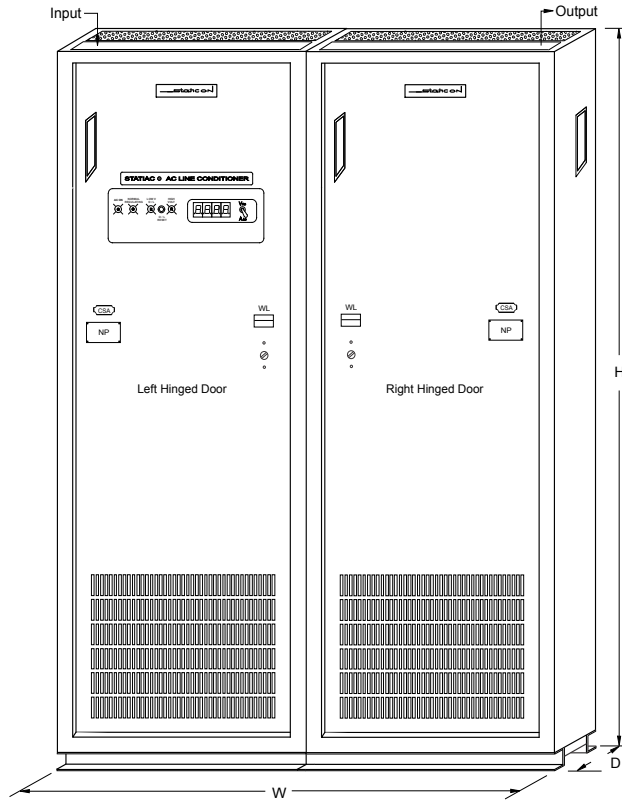
W & B Wall / Bench / Floor

| 1 Phase Output kVA | Cabinet Style | Dimensions mm (in) | | | Weight kg (lbs) |
|--------------------|---------------|--------------------|-----------|-----------|-----------------|
| | | H | W | D | |
| 1.2 | W * | 610 (24) | 508 (20) | 457 (18) | 60 (132) |
| 3 | B * | 762 (30) | 533 (21) | 508 (20) | 90 (198) |
| 5 | F1 | 1600 (63) | 610 (24) | 610 (24) | 120 (265) |
| 7.5 | F1 | 1600 (63) | 610 (24) | 610 (24) | 160 (353) |
| 10 | F1 | 1600 (63) | 610 (24) | 610 (24) | 200 (441) |
| 15 | F1 | 1600 (63) | 762 (30) | 762 (30) | 300 (660) |
| 20 | F1 | 1905 (75) | 762 (30) | 762 (30) | 334 (735) |
| 25 | F1 | 1905 (75) | 762 (30) | 762 (30) | 398 (876) |
| 30 | F1 | 1905 (75) | 762 (30) | 762 (30) | 461 (1015) |
| 40 | F2 | 2057 (81) | 1219 (48) | 1067 (42) | 615 (1356) |
| 60 | F2 | 2057 (81) | 1219 (48) | 1067 (42) | 984 (2169) |

* 1.2 & 3 KVA LCs can be housed in an optional 23 inch W rack mount cabinet 622 (24.5) H.



F1 Floor Mount



F2 Floor Mount

Notes

Actual systems may vary from these cabinet standards according to job-specific options or custom requirements.

All dimensions in mm (inches). Drawings are not to scale.

Construction

CSA / NEMA 1 / IP 20 cabinets. Front access. ANSI 61 grey powder coated baked enamel finish. CSA / NEMA 2 / IP 22 drip shields added to top (6 inches higher) option.

Top cable entry standard. Bottom cable entry optional.

152 mm (6 in) ventilation clearance required on all sides.

Floor Anchor Detail

76 (3) W
51 (2) H
51 (2) D
6.4 (1/4) thick

