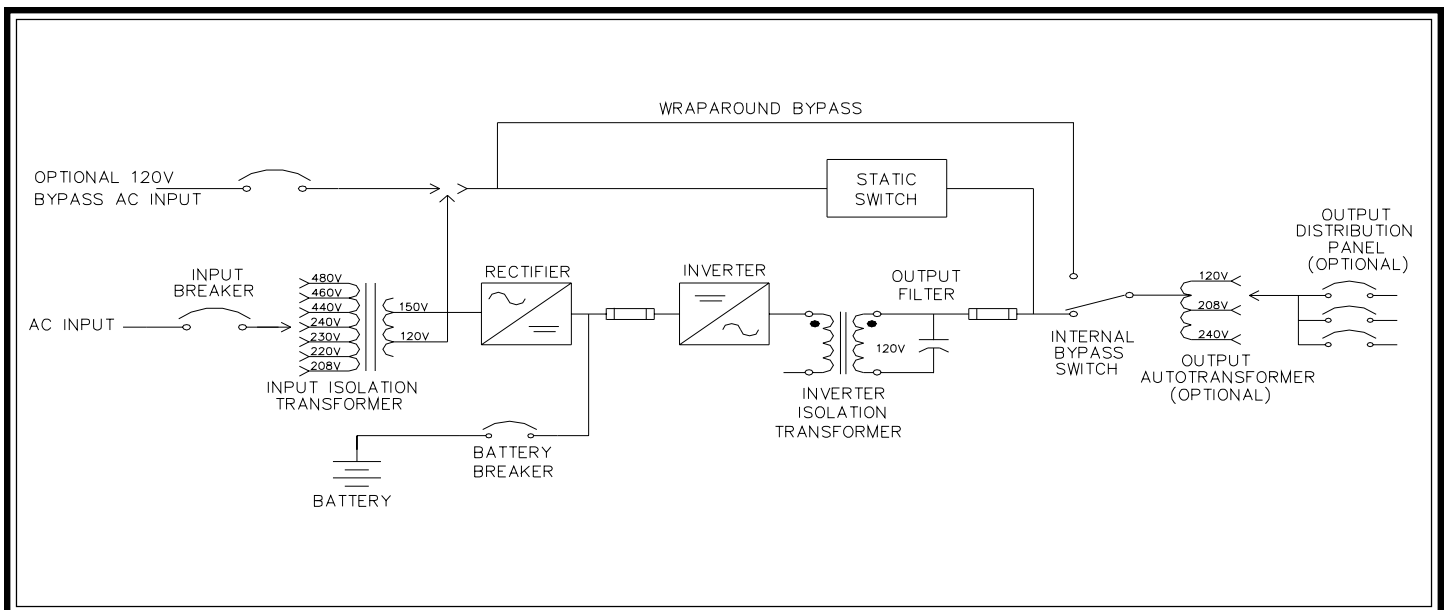




# 3kVA & 5kVA INDUSTRIAL ENVIRONMENT SINGLE-PHASE UNINTERRUPTIBLE POWER SYSTEMS

## Standard Features

- ♦ True, on-line UPS for maximum protection.
- ♦ High efficiency transistorized PWM Inverter provides
- ♦ Pure sinewave output.
- ♦ Less than 1% total harmonic distortion.
- ♦ Fast recovery industrial grade charger.
- ♦ Redundant fault-tolerant circuitry.
- ♦ Easy to operate user-friendly display.
- ♦ Low maintenance.
- ♦ Full kW rated output supports any power factor load – no need to oversize.
- ♦ Automatic, zero-break transfer switch insures continuous output.
- ♦ Superior overload capacity eliminates nuisance transfers to bypass.
- ♦ Handles non-linear loads, with up to 5:1 crest factors.
- ♦ Load rated at 50°C, for tough industrial-grade protection.
- ♦ Input isolation transformer to accept 208 to 480 volt AC.
- ♦ Provides full input to output load isolation.
- ♦ Wrap-Around Maintenance Bypass Switch.
- ♦ Top rear cable entry.
- ♦ Heavy-duty floor mounting brackets.
- ♦ Entire cabinet gasketed for protection from dust and spills.
- ♦ Variable speed, temperature and load controlled cooling fans assure virtually silent operation.
- ♦ Reusable air filters.
- ♦ Small footprint conserves floor space.
- ♦ UL-Listed (specification 1778).





# LS1000 Industrial Environment

| Electrical Specifications                                                |                                                               |      |      |                                     |      |      |
|--------------------------------------------------------------------------|---------------------------------------------------------------|------|------|-------------------------------------|------|------|
| AC Input                                                                 | LS1030H                                                       |      |      | LS1050H                             |      |      |
| Nominal Rectifier Volts 1Ph 50/60 Hz                                     | 440                                                           | 460  | 480  | 440                                 | 460  | 480  |
| Nominal Current (Amps)                                                   | 11.5                                                          | 11   | 10.5 | 19                                  | 18.5 | 18   |
| Max. Current During Battery Recharge (Amps)                              | 16                                                            | 15.4 | 15.1 | 23.8                                | 22.7 | 21.5 |
| Circuit Breaker Trip Rating (Amps)                                       | 25                                                            | 25   | 25   | 25                                  | 25   | 25   |
| Input Voltages                                                           | 440, 460, 480V, 208, 220, 230 240V                            |      |      | 440, 460, 480V, 208, 220, 230, 240V |      |      |
| Voltage Range                                                            | Nominal +15%, -15% and remain operational                     |      |      |                                     |      |      |
| Power Walk-In                                                            | 5 seconds to full load                                        |      |      |                                     |      |      |
| AC Output                                                                | LS1030H                                                       |      |      | LS1050H                             |      |      |
| Nominal Voltage 1Ph 50/60 Hz                                             | 120                                                           | 208  | 240  | 120                                 | 208  | 240  |
| Nominal Current (Amps)                                                   | 25                                                            | 14.5 | 12.5 | 42                                  | 24   | 21   |
| Standard Voltage Output                                                  | 120V                                                          |      |      | 120V                                |      |      |
| Optional Voltage Output                                                  | 120/208/240V                                                  |      |      | 120/208/240V                        |      |      |
| Power Rating                                                             | 3kVA/2.4kW                                                    |      |      | 5kVA/4kW                            |      |      |
| Load Power Factor                                                        | Any                                                           |      |      |                                     |      |      |
| Steady State Regulation                                                  | ±1% over full input, power factor, temperature and load range |      |      |                                     |      |      |
| Dynamic Regulation                                                       | ±2% from nominal for 100% step load                           |      |      |                                     |      |      |
| Harmonic Distortion                                                      | 2% RMS max, for linear loads                                  |      |      |                                     |      |      |
| Load Crest Factor                                                        | 05:01                                                         |      |      |                                     |      |      |
| Overload Current at 0.8 PF Load                                          | 110% Indefinitely                                             |      |      |                                     |      |      |
|                                                                          | 125% for 10 minutes                                           |      |      |                                     |      |      |
|                                                                          | 150% for 60 seconds                                           |      |      |                                     |      |      |
| Overload Current at 1.0 PF Load                                          | 120% for 15 seconds                                           |      |      |                                     |      |      |
|                                                                          | 125% for 8 seconds                                            |      |      |                                     |      |      |
| Frequency Stability                                                      | ±0.01% for nominal                                            |      |      |                                     |      |      |
| Slew Rate                                                                | 1 Hz/sec max                                                  |      |      |                                     |      |      |
| Sync Window                                                              | 58.8 to 61.2 Hz (±2%)                                         |      |      |                                     |      |      |
| System Efficiency                                                        | LS1030H                                                       |      |      | LS1050H                             |      |      |
| Single Phase Input (Half/full load)                                      | 76%/76%                                                       |      |      | 79%/79%                             |      |      |
| DC Link                                                                  | LS1030H                                                       |      |      | LS1050H                             |      |      |
| No of Cells                                                              | 60                                                            |      |      | 60                                  |      |      |
| Nominal Voltage                                                          | 120                                                           |      |      | 120                                 |      |      |
| Float Volts DC                                                           | 136.5                                                         |      |      | 136.5                               |      |      |
| Max. Dis. Current (Amps)                                                 | 24                                                            |      |      | 43                                  |      |      |
| Circuit Breaker Trip Rating (Amps)                                       | 32                                                            |      |      | 50                                  |      |      |
| Battery Recharge Time (to 90% full charge) is 5x Discharge Time, maximum |                                                               |      |      |                                     |      |      |
| Standard Internal Battery Run Times                                      | LS1030H                                                       |      |      | LS1050H                             |      |      |
| Reserve Time at Full/Half Load (mins)                                    | 26/60                                                         |      |      | 10/30                               |      |      |
| Mechanical Specifications                                                | LS1030H                                                       |      |      | LS1050H                             |      |      |
| Width/Depth/Height                                                       | 16 in. (40.6cm)/31.0 in (79 cm)/35 in (89 cm)                 |      |      |                                     |      |      |
| Weight                                                                   | 520 lbs (236 kg)                                              |      |      | 620 lbs (282 kg)                    |      |      |
| Environmental                                                            | LS1030H                                                       |      |      | LS1050H                             |      |      |
| Heat Rejection                                                           | 2000 BTU/hr                                                   |      |      | 2900 BTU/hr                         |      |      |
| Operating Temperature                                                    | 0° to 50°C (32°F to 122°F)                                    |      |      |                                     |      |      |
| Storage Temperature                                                      | -20°C to 60°C (-4°F to 140°F)                                 |      |      |                                     |      |      |
| Humidity                                                                 | 0%-95% Non-Condensing                                         |      |      |                                     |      |      |

LTI Power Systems is a ISO9001-2000 listed manufacturer

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