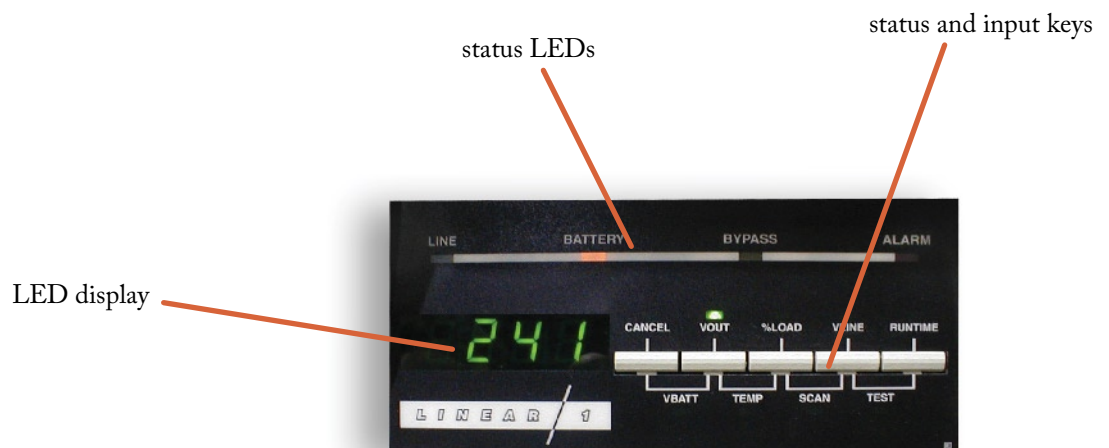
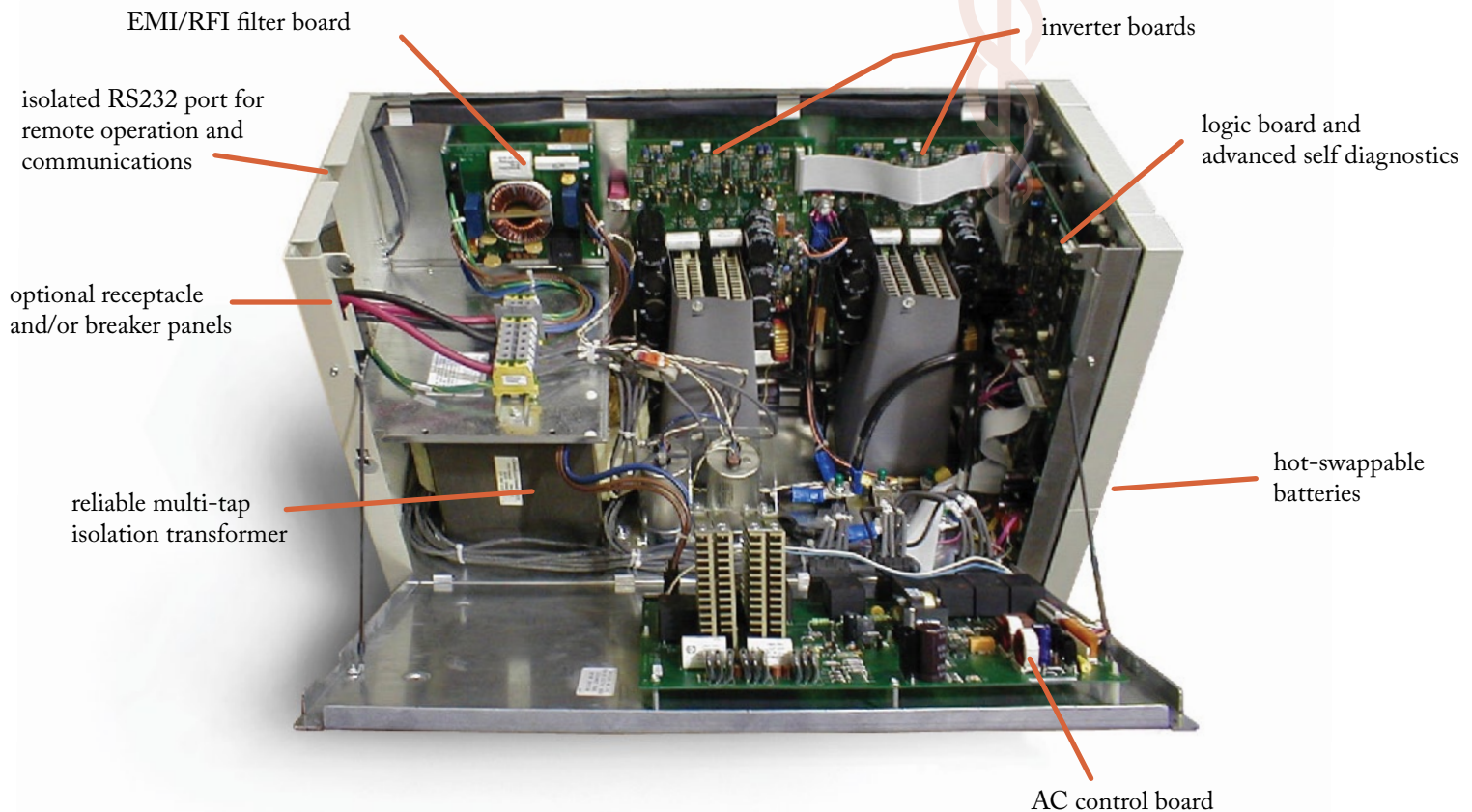


linear/1 |

battery backup · line conditioner
surge suppressor

This is one slick machine. (surge overload capacity of 200%)



Emergency power-off

Safety certification UL 2601-1 / UL 60601-1, UL 1778, cUL

EMC compliance FCC-A, Vfg 243/1991, Vfg 46/1992, CISPR 22 compliance listing

Software The LinCS Software Suite is a comprehensive collection of power management shutdown software for use with **linear/1** uninterruptible power systems. The software provides enhanced UPS monitoring and unattended system shutdown features for Windows 9x and Windows NT/2000. The software furnishes a complete record of critical power events and UPS activity on an event log, helping you spot, diagnose and react more effectively to problems. On-line manuals include easy-to-follow installation and operating instructions in either Adobe Acrobat or ASCII formats.

accratech | :

Accratech, Inc.
Suite 5 Door 74 · N9246 Hwy 80 South
Necedah, WI 54646
608.565.2136
www.accratech.com

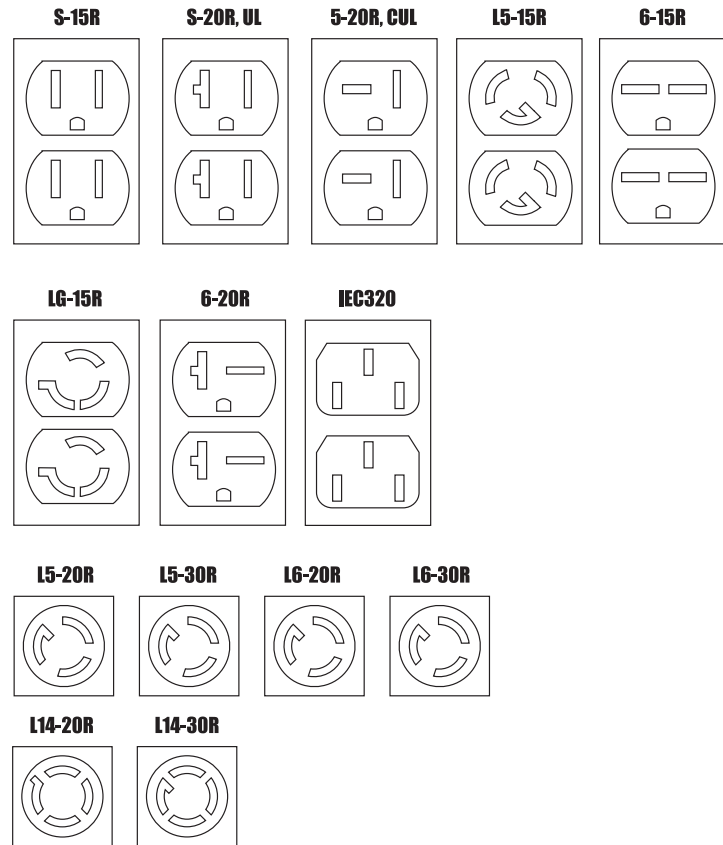
linear/1 | 

battery backup · line conditioner
surge suppressor

How can we configure one for you?

kVA/KW options 3, 4, 5, and 8kVA/KW

Receptacle options (other options available on request)



Line cord & plug options (hospital grade where applicable)

Extended runtime battery options

Internal or external charger upgrades

Communications connections, network compatibility and remote diagnostic features

Start up service utilizing our specialized technicians who ensure proper installation and provide staff training

On-site service with 24 hour response time

Preventative maintenance service plans (1 and 2 visits per year programs)

Shipping options on replacement parts (2-5 day ground or overnight expedited delivery)

Help desk support (8-5 Monday through Friday standard coverage, 7/24 premium upgrade offering)

The Linear/1 UPS having been certified for medical safety under UL 60601-1 is intended for use in a medical environment providing clean safe electrical power. The Linear/1 UPS is NOT to be considered a primary or emergency source of electrical power. The Linear/1 UPS is made to enhance the quality of power provided by the power grid and emergency generator in addition to being secondary source of electrical back up power providing an interim source of power between the loss of power normally provided by the power grid and the introduction of power provided by the emergency power generator.

Compliance with universal safety and EMC standards

- ⏻ UL 2601-1 / UL 60601-1 medical safety certification
- ⏻ FCC part 15: Class A, Vfg 243/1991, Vfg 46/1992, CISPR 22
- MEC compliance, UL 1778, CAN/CSA C22.2 No. 107.1-M91

Low current leakage for "near patient or staff" applications

- ⏻ Less than 100 microamps typical . . . industry safety standards require less than 500 microamps

Efficiency

- ⏻ 96% efficient, which may in some applications save you thousands of dollars in energy consumption and AC expenditures

Configurable

- ⏻ 3, 4, 5, and 8kVA/kW industry exclusive offering
- ⏻ 6.5 to 13 minutes standard at full load (with extended runtime options) battery run times for power loss situations . . . be they planned or not
- ⏻ 3-8k – 200-240V input, 100, 110, 115, 120, 200, 208, 220, 230 or 240V output
- ⏻ 1 to 4 plug-and-play panels with multiple receptacles in each

18 internal diagnostic routines

- ⏻ Comprehensive UPS condition alerts: low runtime, overload, circuit breaker warning/shutdown, high ambient temperature, check battery, check inverter, memory error, high battery, low battery advisory condition, check fan, batteries disconnected, tap regulator alarm, low AC out warning/shutdown, high AC out warning/shutdown, check MOVs, auto bypass, check fuse board, check power supply

Unity power factor

- ⏻ No oversizing of UPS is required for power factor corrected loads

System superiority

- ⏻ Fault tolerant
- ⏻ Realtime multi-tasking microprocessor control
- ⏻ Worldwide voltage and frequency compatibility
- ⏻ Lowest operating cost in its power range
- ⏻ 40 decibel at one meter audible noise (5 times softer than other offerings)
- ⏻ Easy installation



| Model | | U91-1.5k | U91-3k | U91-4k | U91-5k | U91-8k |
|---------------------------------------|--------------------|--|--|---|-------------------|-----------------|
| Capacity (kVA/kW) | | 1.5kVA/1.5kW | 3kVA/3kW | 4kVA/4kW | 5kVA/5kW | 8kVA/8kW |
| Dimensions (H x W x D) | (inches) | 5.25 (3U) x 17.75 x 24 | 29 x 10.5 x 25.75 | 29 x 10.5 x 25.75 | 29 x 10.5 x 25.75 | 32 x 13 x 33 |
| | (mm) | 133 x 451 x 610 | 737 x 267 x 654 | 737 x 267 x 654 | 737 x 267 x 654 | 813 x 330 x 838 |
| Weight | (lb) | 80 | 280 | 280 | 295 | 490 |
| | (kg) | 36 | 127 | 127 | 134 | 222 |
| Input Connection | | 5-20P Hospital Grade | Hardwired input is standard (line cord options available – contact factory) | | | Hardwired input |
| Output Connection | | (3) 5-20R Hospital Grade and 1 option panel | Hardwired input is standard (receptacle options available – contact factory) | | | |
| Typical Runtime | (full “100%” load) | 6 | 13 | 9 | 6.5 | 11 |
| | (minutes) | 8 | 18 | 12 | 9 | 14 |
| | (half load) | 15 | 35 | 24 | 18 | 25 |
| AC Input Voltage Range | | 75-132 | | 147-264 (for nominal 200/208/220/230/240V output) | | |
| Input Nominal Current at Full Load | | 100V=9A | 200V=17A | 200V=22A | 200V=28A | 200V=45A |
| | | 110V=8A | 208V=17A | 208V=22A | 208V=27A | 208V=43A |
| | | 120V=7A | 220V=16A | 220V=20A | 220V=25A | 220V=41A |
| | | | 230V=15A | 230V=20A | 230V=24A | 230V=39A |
| | | | 240V=14A | 240V=19A | 240V=23A | 240V=38A |
| Operating Frequency | | 50 or 60 Hz nominal | | | | |
| | | On line: output frequency tracks input within adjustable limits (±3Hz default) | | | | |
| | | On inverter: ±0.15Hz | | | | |
| Nominal Output | | 100/120 nominal output voltage | 100/110/115/120/200/208/220/230/240 nominal output voltage | | | |
| Output Voltage Regulation | | ±5% of nominal output voltage | | | | |
| Output Voltage Waveform | | Sinewave, computer-grade power with 5% THD at rated kW load | | | | |
| Overload Capacity | | 200% surge | 200% Surge for a minimum of 2.5 seconds / 110% Surge for a minimum of 10 minutes | | | |
| Transfer Time | | 0 mS | | | | |
| Lightning, Surge and Noise Protection | | 200 Joule surge suppression rating. 0.7% Let-Through-Voltage (LTV). Tested to ANSI/IEEE C62.41 Categories A3 and B3 tests. Common Mode – up to 50dB. Normal Mode – up to 90dB. | | | | |
| | | Separately derived power source per NEC Article 250-5d. | | | | |
| | | | | | | |
| Efficiency (on line) | | 95% | 95% | 96% | 96% | 96% |
| recharge Time (to 85% charge) | | 2-3 hours | 2-3 hours | 2-3 hours | 2-3 hours | 3-4 hours |
| Safety Certification | | UL 544 (UL 2601), UL 1778, cUL | UL 2601-1 / UL 60601-1, UL 1778, cUL | | | |
| EMC Compliance | | FCC-A, Vfg 243/1991, Vfg 46/1992, CISPR 22 | | | | |
| Testing Standards | | ANSI/IEEE C62.41 (1980), C62.45 (1987); IEC 801-2, 801-3, 801-4, 801-5 | | | | |
| Communication | | RS-232 port (DE9) featuring full-duplex serial communication, alarm contacts, inverter contacts, and remote shutdown | | | | |
| | | | | | | |
| Operation | | | | | | |
| Operating Temperature | | 0 degrees to +40 degrees C | | | | |
| Storage Temperature | | -20 degrees to +60 degrees C (-20 degrees to +40 degrees C if battery is not removed) | | | | |
| Relative Humidity | | 0 to 95% without condensation | | | | |
| Audible Noise at 1 meter | | <40dBA | <40dBA | <40dBA | <40dBA | <40dBA |
| Heat (on line) | (BTU/hr) | 270 | 539 | 569 | 711 | 1138 |
| | (kW/hr) | 0.08 | 0.158 | 0.167 | 0.208 | 0.333 |
| Altitude | | Maximum ambient operating temperature drops by 1 degree C per 305 meters (1000 feet) above sea level, maximum elevation being 3050 meters (10,000 feet). | | | | |