

SPECIFICATION SHEET



Double-conversion Online Interactive Single-Phase UPS

Double-conversion online UPSs protect critical hardware and provide visibility and control of power usage and available capacity

OVERVIEW

Protect mission critical hardware in IT closets, voice and data networks, unmanned facilities, light industrial, and financial branches through double-conversion online power protection. Multiply the reach and ability of IT staff and caretakers through a single portal, providing visibility and control of power usage and available capacity, simplifying maintenance responsibilities for taxed IT departments.

FEATURES

- **Zero Transfer Time:** Seamless transfer of power from AC to battery and inverter to bypass
- **True Double-Conversion:** Provides the highest protection from raw input power (surges, spikes, and dips)
- **Pure Sinewave Output:** Provides the ideal waveform for the most sensitive equipment
- **Wide Input Voltage Range:** Enables stable wide range application usage
- **Input Power Factor Correction:** Optimized and ideal efficiency at full load
- **Programmable Outlet Bank:** Ensures efficient and timely powering down of attached non-critical equipment
- **Designed to Work in Tandem with a Generator:** Ensures smooth transition to generators during longer outages
- **Optional Remote Management Control:** Provides visibility and control of power usage and availability, both on-site or at a remote unmanned facility
- **4-Post Rack Mounting Kit:** Included for simplified rack mounting
- **Tower Mounting Option:** Includes feet for non-rack applications, enabling the UPS to stand up by providing stability

ITEM DESCRIPTION

LU-1500-RT UPS, Online, LCD, 1500VA, 120V, 2U, (8) 5-15R, 5-15P Cord

LISTING AGENCIES/THIRD PARTY CERTIFICATIONS

- **RoHS:** Yes
- **cTUVus:** Yes
- **FCC:** Yes

SPECIFICATION SHEET

SPECIFICATIONS:

Double-conversion Online Interactive Single-Phase UPS LU-1500-RT — UPS, Online, LCD, 1500VA, 120V, 2U, (8) 5-15R, 5-15P Cord

SPECIFICATIONS

INPUT

- Nominal Voltage: 80-150V
- Voltage Range:
 - Low Line Transfer: 80 VAC / 70 VAC / 60 VAC / 55 VAC \pm 5% (based on load percentage 100% - 80% / 80% - 70% / 70% - 60% / 60% - 0)
 - Low Line Comeback: 87 VAC / 77 VAC / 67 VAC / 62 VAC \pm 5%
 - High Line Transfer: 150 VAC \pm 5%
 - High Line Comeback: 145 VAC \pm 5%
- Frequency Range: 40 Hz ~ 70 Hz
- PHASE: Single phase with ground
- Power Factor @ 120V: 0.9
- Harmonic Distortion (THDi): \leq 5% @ 100~130VAC
THDU < 1.6% @ input and full linear load condition
- Inlet Plug: NEMA 5-15P

OUTPUT

- Power Capacity: 1500VA / 1300W
- Output Receptacles: (8) NEMA 5-15R
- Output Voltage: 100 / 110 / 115 / 120 / 127 VAC
- AC Voltage Regulation (Battery Mode): \pm 1%
- Frequency Range (Synchronized Range): 47 ~ 53 Hz or 57 ~ 63 Hz
- Frequency Range (Battery Mode): 50 Hz \pm 0.1 Hz or 60Hz \pm 0.1 Hz
- Current Crest Ratio: 3:1
- Harmonic Distortion: \leq 2 % THD (Linear Load); 4 % THD (Non-linear Load)
- Transfer Time:
 - AC Mode to Battery Mode: Zero
 - Inverter to Bypass: < 4 ms
- Waveform: Pure Sinewave

BATTERY

- Battery Type: 12V / 9Ah
- Quantity of Batteries: 2
- Recharge Time: 3 hours recover to 95% capacity for internal battery@ 2A charging current
- Charging Current: Default: 2A, max.: 8A auto-adjustable via battery AH setting
- Charging Voltage: 41.0 VDC \pm 1%
- Runtime Under Load (minutes): Half 10.3, Full 3.0

EFFICIENCY

- AC Mode: \geq 89% @ full charged battery
- ECO (Efficiency Corrective Optimizer) Mode: \geq 96% @ full charged battery
- Battery Mode: \geq 88% @ full charged battery

ALARM

- Battery Mode: Sounding every 10 seconds
- Low Battery: Sounding every 2 seconds
- Overload: Sounding every second
- Fault: Continuously sounding

PHYSICAL

- Form Factor: 2U Rack/Tower
- LCD Display: UPS Status, Load Level, Battery Level, Input/Output Voltage, Discharge Timer and Fault Conditions
- Dimension, DxWxH (inches): 16.1 x 17.2 x 3.5 (2U)
- Dimension, DxWxH (mm): 410 x 438 x 88 (2U)
- Net Weight (lbs) with Battery: 34.2
- Net Weight (kgs) with Battery: 15.5
- Net Weight (lbs) without Battery: 17.9
- Net Weight (kgs) without Battery: 8.1

ENVIRONMENT

- Storage temperature: -13°F to 104°F (-25°C to 40°C)
Recharge Frequency: Every 3 months for 1-2 hours
- Storage temperature: 104°F to 113°F (40°C to 45°C)
Recharge Frequency: Every 2 months for 1-2 hours
- Operation Humidity: 20-95% RH @ 32 – 104°F or 0 – 40°C (non-condensing)
- Acoustic Noise Level: Less than 50dBA @ 3.28 ft. or 1 Meter (With fan speed control)

REMOTE MANAGEMENT

- Smart RS-232 or USB: Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux, Unix and MAC
- Optional SNMP: Part No. LU-IPCARD Power management from SNMP manager and web browser

CONFORMANCE

- Regulatory Approvals: Tested to UL 1778, cTUVus Listed, CSA C22.2 No. 107.3-14, Part 15 Class A of the FCC rules, RoHS compliant
- Warranty: Standard 2 years manufacturer warranty



Legrand, North and Central America

60 Woodlawn Street
West Hartford, CT 06110
1.877.BY.LEGRAND (295.3472)
www.legrand.us