

# 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

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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

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- **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

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LU-2000-RT UPS, Online, LCD, 2000VA, 120V, 2U, (8) 5-20R, 5-20P Cord

### LISTING AGENCIES/THIRD PARTY CERTIFICATIONS

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

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## SPECIFICATIONS:

### Double-conversion Online Interactive Single-Phase UPS LU-2000-RT — UPS, Online, LCD, 2000VA, 120V, 2U, (8) 5-20R, 5-20P 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 5-20P

##### OUTPUT

- Power Capacity: 2000VA / 1850W
- Output Receptacles: (8) NEMA 5-20R
- 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: 4
- 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: 54.7 VDC  $\pm$  1%
- Runtime Under Load (minutes): Half 9.9, Full 3.0

##### EFFICIENCY

- AC Mode:  $\geq$  891% @ full charged battery
- ECO (Efficiency Corrective Optimizer) Mode:  $\geq$  96% @ full charged battery
- Battery Mode:  $\geq$  90% @ 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): 20.1 x 17.2 x 3.5 (2U)
- Dimension, DxWxH (mm): 510 x 438 x 88 (2U)
- Net Weight (lbs) with Battery: 43.0
- Net Weight (kgs) with Battery: 19.5
- Net Weight (lbs) without Battery: 20.7
- Net Weight (kgs) without Battery: 9.4

##### 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