

## SmartOnline 120V 3kVA 2.7kW On-Line Double-Conversion UPS, 2U Rack/Tower, Extended Run, Network Card Option, ENERGY STAR

MODEL NUMBER: SU3000RTXL2U



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, surges and line noise. Converts incoming AC power to filtered DC power, then back to AC with a pure sine wave.

### Features

**Protects Mission-Critical Rack-Mounted Equipment** Protects equipment against data loss, downtime and damage due to power outages, voltage fluctuations and transient surges +/-2% voltage regulation in online and battery modes Selectable 120V 50/60 Hz output voltage with up to 0.9 power factor 6 breakered NEMA 5-15/20R and 1 non-breakered L5-30R outlets 10-ft. (3.05 m) AC power cord with NEMA L5-30P input plug 504-joule surge protection rating for shielding connected devices from damaging power surges and spikes

**Reliable Battery Backup with Expandable Runtime** Supports half load for 13.8 min. and full load for 4.8 min. Zero transfer time between AC power and battery operation keeps network running during blackouts Expandable runtime with optional external battery packs, such as Tripp Lite's BP72V15-2U

**ENERGY STAR Version 2.0 Certification** High efficiency operation and low BTU heat output reduces energy costs and meets strict EPA guidelines

**Switchable Breakered Load Banks** NEMA 5-15/20R outlets divided into 2 numbered load banks, each of which may be individually powered on and off remotely to reset or reboot connected equipment

**Front LED Panel** 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery condition and fault status information Rotates for viewing in rack and tower formats

**Audible Alarm** Indicates power failure, overload, battery condition and EPO operation

**Communications Ports** USB and DB9 ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software (available via free download at [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert)) Optional WEBCARDLX allows full remote access for power monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH

**Versatile Installation Options** Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rack Mounts in 2-post rack with optional 2POSTRMKITWMM Mounts in upright tower position with optional 2-9USTAND

### Highlights

- Zero transfer time between AC power and battery operation
- +/-2% output voltage regulation in online and battery modes
- Expandable runtime with optional external battery packs
- Optional WEBCARDLX network interface for full remote access
- 13.8 min. runtime at half load; 4.8 min. at full load
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

### Package Includes

- SU3000RTXL2U SmartOnline 120V 3kVA 2.7kW On-Line Double-Conversion UPS
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual

## Specifications

| OVERVIEW                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPC Code                                 | 037332197023                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UPS Type                                 | On-Line                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| INPUT                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated input current (Maximum Load)       | 24A maximum                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nominal Input Voltage(s) Supported       | 120V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UPS Input Connection Type                | L5-30P                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Recommended Electrical Service           | 30A 120V                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Input Phase                              | Single-Phase                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Input Cord Length (ft.)                  | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Input Cord Length (m)                    | 3.05                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| OUTPUT                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Output Capacity (VA)                     | 3000                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Output Capacity (kVA)                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Output Capacity (Watts)                  | 2700                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Output Capacity (kW)                     | 2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Output Capacity Details                  | INVERTER SHORT-CIRCUIT PROTECTION: Inverter short-circuit protection is electrically protected; OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% for 30 seconds, 150% for 10 seconds and >150% for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits of 120V ±10%) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits of 120V ±10%). |
| Power Factor                             | 0.9                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Crest Factor                             | 3:1                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nominal Voltage Details                  | 120V default                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Frequency Compatibility                  | 50 / 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Frequency Compatibility Details          | Accepts 40 to 70Hz input frequency. Output frequency matches input nominal on startup, defaults to 60 Hz on cold-start. Frequency conversion from 60 to 50 Hz -or- 50 to 60 Hz supported. Output capacity de-rates to 70% of normal levels during frequency conversion operation.                                                                                                                                                                       |
| Output Voltage Regulation (Line Mode)    | +/- 2%                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Output Voltage Regulation (Battery Mode) | +/- 2%                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Load Management Receptacles              | Two switchable three-outlet load banks                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Output Circuit Breakers                  | 20A (x2) - each breaker protects 3 5-15/20R outlets, L5-30R outlet is un-breakered                                                                                                                                                                                                                                                                                                                                                                      |
| Output AC Waveform (AC Mode)             | Pure Sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output AC Waveform (Battery Mode)            | Pure Sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nominal Output Voltage(s) Supported          | 100V; 110V; 115V; 120V; 127V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Output Receptacles                           | (6) 5-15/20R; (1) L5-30R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Individually Controllable Load Banks         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>BATTERY</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Battery Type                                 | Valve Regulated Lead Acid (VRLA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Runtime Full Load (min.)                     | 4.8 min. (2700W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Runtime Half Load (min.)                     | 13.8 min. (1350W)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Expandable Runtime                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| External Battery Pack Compatibility          | <a &gt;bp72v15-2u<="" a="" href="https://tripplite.eaton.com/External-72V-2U-RackTower-Battery-Pack-for-Select-Tripp-Lite-UPS-Systems~BP72V15-2U"> (limit 1); <a &gt;bp72v28rt-3u<="" a="" href="https://tripplite.eaton.com/External-72V-3U-Rack-Tower-Battery-Pack-Select-Tripp-Lite-UPS-systems~BP72V28RT-3U"> (multi-pack compatible); <a &gt;bp72v18-2us<="" a="" href="https://tripplite.eaton.com/External-72V-2U-Rack-Tower-Battery-Pack-for-Tripp-Lite-UPS-Systems~BP72V18-2US"> (multi-pack compatible)         </a></a></a> |
| DC System Voltage (VDC)                      | 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Battery Recharge Rate (Included Batteries)   | Less than 8.1 hours from 10% to 90% (typical, full load discharge)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Battery Access                               | Front panel battery access door                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Internal UPS Replacement Battery Cartridge   | See RBC selector guide (replacement battery part number is also labeled on the internal battery door)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>VOLTAGE REGULATION</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Voltage Regulation Description               | Online, double-conversion power conditioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Overvoltage Correction                       | ONLINE MODE: 2% output voltage regulation during overvoltages to 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Undervoltage Correction                      | 2% output voltage regulation during undervoltages to 80V (66-100% load)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Severe Undervoltage Correction               | 2% output voltage regulation during undervoltages to 70V (33-66% load) or 60V (under 33% load)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Switches                                     | 2 Switches control off/on power status and alarm-cancel/self-test operation                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alarm Cancel Operation                       | Power-fail alarm can be silenced using alarm-cancel switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audible Alarm                                | Audible alarm indicates power failure, low battery, overload, replace battery and EPO operation                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| LED Indicators                               | 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats                                                                                                                                                                                                                                                                               |
| <b>SURGE / NOISE SUPPRESSION</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UPS AC Suppression Joule Rating              | 504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EMI / RFI AC Noise Suppression               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Suppression Response Time                                    | Instantaneous                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>PHYSICAL</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                             |
| Primary Form Factor                                             | Rackmount                                                                                                                                                                                                                                                                                                                                                                                                   |
| Rack Height                                                     | 2U                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cooling Method                                                  | Fan                                                                                                                                                                                                                                                                                                                                                                                                         |
| Included Mounting Accessory Description                         | Includes 4 post rackmount installation accessories                                                                                                                                                                                                                                                                                                                                                          |
| Installation Form Factors Supported with Included Accessories   | 4 post 19 inch rackmount                                                                                                                                                                                                                                                                                                                                                                                    |
| Installation Form Factors Supported with Optional Accessories   | 2 post rackmount ( <a href="//tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM</a> ); Tower ( <a href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND</a> ) |
| Minimum Required Rack Depth (cm)                                | 71.12                                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum Required Rack Depth (inches)                            | 28                                                                                                                                                                                                                                                                                                                                                                                                          |
| Minimum Required Rack Depth with External Battery Pack (cm)     | 77                                                                                                                                                                                                                                                                                                                                                                                                          |
| Minimum Required Rack Depth with External Battery Pack (in.)    | 30.25                                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum Required Rack Depth without External Battery Pack (cm)  | 74                                                                                                                                                                                                                                                                                                                                                                                                          |
| Minimum Required Rack Depth without External Battery Pack (in.) | 29.25                                                                                                                                                                                                                                                                                                                                                                                                       |
| Primary UPS Depth (mm)                                          | 616                                                                                                                                                                                                                                                                                                                                                                                                         |
| Primary UPS Height (mm)                                         | 88                                                                                                                                                                                                                                                                                                                                                                                                          |
| Primary UPS Width (mm)                                          | 438                                                                                                                                                                                                                                                                                                                                                                                                         |
| Shipping Dimensions (hwd / in.)                                 | 9.45 x 23.62 x 29.92                                                                                                                                                                                                                                                                                                                                                                                        |
| Shipping Dimensions (hwd / cm)                                  | 24.00 x 59.99 x 76.00                                                                                                                                                                                                                                                                                                                                                                                       |
| Shipping Weight (lbs.)                                          | 87.00                                                                                                                                                                                                                                                                                                                                                                                                       |
| Shipping Weight (kg)                                            | 39.46                                                                                                                                                                                                                                                                                                                                                                                                       |
| UPS Housing Material                                            | Steel                                                                                                                                                                                                                                                                                                                                                                                                       |
| UPS Power Module Dimensions (hwd, cm)                           | 8.79 x 43.79 x 61.60                                                                                                                                                                                                                                                                                                                                                                                        |
| UPS Power Module Dimensions (hwd, in.)                          | 3.46 x 17.24 x 24.25                                                                                                                                                                                                                                                                                                                                                                                        |
| UPS Power Module Weight (kg)                                    | 31.17                                                                                                                                                                                                                                                                                                                                                                                                       |
| UPS Power Module Weight (lbs.)                                  | 68.72                                                                                                                                                                                                                                                                                                                                                                                                       |
| Unit Weight (lbs.)                                              | 68.720                                                                                                                                                                                                                                                                                                                                                                                                      |
| Unit Weight (kg)                                                | 31.17                                                                                                                                                                                                                                                                                                                                                                                                       |

| ENVIRONMENTAL                                               |                                                                                                                                                                                                                                          |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature Range                                 | 32° to 104°F (0° to 40°C)                                                                                                                                                                                                                |
| Storage Temperature Range                                   | 5° to 122°F (-15° to 50°C)                                                                                                                                                                                                               |
| Relative Humidity                                           | 5 to 95%, non-condensing                                                                                                                                                                                                                 |
| AC Mode BTU / Hr. (Full Load)                               | 531                                                                                                                                                                                                                                      |
| AC Economy Mode BTU / Hr. (Full Load)                       | 484.5                                                                                                                                                                                                                                    |
| Battery Mode BTU / Hr. (Full Load)                          | 1037                                                                                                                                                                                                                                     |
| AC Economy Mode Efficiency Rating (100% Load)               | 95%                                                                                                                                                                                                                                      |
| Audible Noise                                               | 50 dBA max, front-side @ 1m                                                                                                                                                                                                              |
| COMMUNICATIONS                                              |                                                                                                                                                                                                                                          |
| Network Management Cards                                    | &nbsp;<a class="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-WEBCARDLX">WEBCARDLX</a>&nbsp;                                                                                                                    |
| Network Monitoring Port Description                         | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications                                                                                                                |
| PowerAlert Software                                         | For local monitoring via the UPS's built-in communication ports and modify the UPS Power Strategy settings download PowerAlert Local software at <a href="https://www.tripplite.com/poweralert">https://www.tripplite.com/poweralert</a> |
| Communications Cable                                        | USB and DB9 cabling included                                                                                                                                                                                                             |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications                                                                                                                                                |
| Network Management Card Description                         | Network management card optional                                                                                                                                                                                                         |
| Communications Interface                                    | Contact closure; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)                                                                                                                                   |
| LINE / BATTERY TRANSFER                                     |                                                                                                                                                                                                                                          |
| Transfer Time                                               | No transfer time (0 ms.) in online, double-conversion mode                                                                                                                                                                               |
| Low Voltage Transfer to Battery Power (Setpoint)            | 80V (100% load), 70V (66% load), 60V (33% load)                                                                                                                                                                                          |
| High Voltage Transfer to Battery Power (Setpoint)           | 150                                                                                                                                                                                                                                      |
| FEATURES & SPECIFICATIONS                                   |                                                                                                                                                                                                                                          |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                                                                                                                                                                           |
| High Availability UPS Features                              | Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic inverter bypass; Hot swappable batteries; Remote management; Surge/noise protection; Zero transfer time                                                                 |
| Green Energy-Saving Features                                | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation                                                                                                          |
| Grounding Lug                                               | Includes back-panel grounding lug                                                                                                                                                                                                        |
| STANDARDS & COMPLIANCE                                      |                                                                                                                                                                                                                                          |



1000 Eaton Boulevard  
Cleveland, OH 44122  
United States

|                                                            |                                                                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product Certifications                                     | CSA (Canada); NOM (Mexico); UL 1778                                                                                                 |
| Product Compliance                                         | RoHS; ENERGY STAR Qualified; FCC Part 15 Class A (USA)                                                                              |
| WARRANTY & SUPPORT                                         |                                                                                                                                     |
| Product Warranty Period (Worldwide)                        | 2-year limited warranty                                                                                                             |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>&nbsp; |



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