



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, Lithium Iron Phosphate (LiFePO4) Batteries, 2U, LCD, USB, DB9, Energy Star

MODEL NUMBER: **SMART2200RM2UL**



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Special LiFePO4 battery provides long service life and more cycles.

### Description

The SMART2200RM2UL SmartPro® 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. Ideal for backing up servers and network storage devices, the SMART2200RM2UL switches to 2.2kVA/1.92kW battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

The innovative lithium iron phosphate (LiFePO4) internal battery more than doubles the service life of an equivalent lead acid battery, and offers up to three times more charge/discharge cycles. It recharges to 100-percent capacity in less than two hours, making the SMART2200RM2UL an ideal backup in case of power outage. It provides 11.7 minutes of support at half load and 5.1 minutes at full load.

Featuring eight outlets and a 10-foot power cord with NEMA 5-20P input, the SMART2200RM2UL maintains 120V nominal output over an input range of 83V to 147V without using battery power. EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 570-joule surge suppression rating protects your equipment from harmful power surges. With Tripp Lite's PowerAlert® software (available via free download), the SMART2200RM2UL enables safe unattended system shutdown and file saves in case of a prolonged power failure.

### Features

#### Protects Mission-Critical Rack-Mounted Equipment

- Provides fully regulated sine wave AC output for servers, network storage devices, telecom hardware and other applications where long battery lifespan is critical
- Audible alarm signals loss of utility power, overload and low battery
- 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets

### Highlights

- LiFePO4 battery offers longer life, more cycles and faster recharge
- Energy Star qualified; 97% line-mode efficiency saves energy costs
- 4 NEMA 5-15R & 4 5-15/20R outlets—2 switchable via network interface
- Compatible with Tripp Lite network management cards
- 11.7 min. runtime at half load; 5.1 min. at full load

### Package Includes

- SMART2200RM2UL SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual





- 10 ft. power cord with 120V NEMA 5-20P input
- 570-joule surge suppression rating
- 0.9 power factor rating
- 97% line-mode efficiency rating saves money in energy costs

#### **Superior LiFePO4 Battery Backup Compared to Equivalent Lead Acid Battery**

- More than 2x the service life
- Up to 3x more charge/discharge cycles
- Recharges to 100% capacity in less than 2 hr.
- Weighs 60% less, reducing overall UPS weight
- Supports half load up to 11.7 min. and full load up to 5.1 min.

#### **2 Load Banks with Switchable Outlets**

- Can control 2 outlets remotely to reboot equipment or shed nonessential loads

#### **Automatic Voltage Regulation (AVR)**

- Maintains 120V nominal output over input range of 83V–145V without using battery power

#### **EMI/RFI Line Noise Filtering**

- Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

#### **Interactive LCD Screen**

- Front-panel LCD with detailed UPS and site power status and operating data
- Rotates for easy viewing in rack-mount or tower configurations

#### **Optional Network Management Cards**

- Compatible with Tripp Lite UPS management cards TLNETCARD, WEBCARDLX, SNMPWEBCARD and RELAYIOCARD

#### **Communications Ports**

- USB and DB9 ports enable data-saving unattended shutdown when used with Tripp Lite PowerAlert software (available via free download at [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert))
- EPO port supports emergency shutdown in large facilities

#### **Versatile Installation Options**

- Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rack
- Mounts on wall or 2-post rack with optional 2POSTRMKITWM accessory
- Mounts in upright tower position with optional 2-9USTAND accessory

#### **Backed by Tripp Lite's Ultimate Lifetime Insurance**

- \$250,000 Ultimate Lifetime Insurance covers any connected components (U.S., Canada and Puerto Rico only)



## Specifications

OVERVIEW	
UPC Code	037332192646
OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA Capacity (kVA)	2.2
Output Watt Capacity (Watts)	1920
Output kW Capacity (kW)	1.92
Power Factor	.87
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Nominal Voltage Details	120v nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	-14%, +6%
Output Voltage Regulation (Battery Mode)	+/- 5%
Output Receptacles	(4) 5-15R; (4) 5-15/20R
Load Management Receptacles	Two switchable single-outlet load banks
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	16A (120V)
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-20P
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	20A 120V
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	5.1 min. (1920w)
Half Load Runtime (min.)	11.7 min. (960w)



DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	1.4 hours from 10% to 90% (typical, full load discharge)
Expandable Runtime	No
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145
Overvoltage Correction	Input voltages between 127 and 145 are reduced by 12%
Undervoltage Correction	Input voltages between 108 and 96 are boosted by 12%
Severe Undervoltage Correction	Input voltages between 83 and 95 are boosted by 24%
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Front Panel LCD Display	Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, operating mode, alarm function and a variety of additional options (see manual for detailed LCD configuration and monitoring options)
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
Alarm Cancel Operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Audible Alarm	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC Suppression Joule Rating	570
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
<b>PHYSICAL</b>	
Included Mounting Accessory Description	4 post rackmount installation accessories included
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND); 2-4 post front rail rackmount (UPSHDEARKIT)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3.43 x 17.32 x 19.27
UPS Power Module Dimensions (hwd, cm)	8.71 x 43.99 x 48.95
Rack Height (U Spaces)	2
Minimum Required Rack Depth (inches)	24.27
Minimum Required Rack Depth (cm)	61.65
UPS Power Module Weight (lbs.)	41.78
UPS Power Module Weight (kg)	18.95



Shipping Dimensions (hwd / in.)	10.24 x 25.59 x 27.76
Shipping Dimensions (hwd / cm)	26.01 x 65.00 x 70.51
Shipping Weight (lbs.)	55.00
Shipping Weight (kg)	24.95
Cooling Method	Fan
UPS Housing Material	Steel
Primary UPS Height (mm)	87
Primary UPS Width (mm)	440
Primary UPS Depth (mm)	489
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	221
Battery Mode BTU / Hr. (Full Load)	1343
AC Mode Efficiency Rating (100% Load)	97%
Audible Noise	45 dBA Max @ 1m front side
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX;&nbsp;<a class="productLink" href="//www.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD</a>&nbsp;
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
Communications Cable	USB, DB9 and EPO cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network UPS Tools Compatibility	NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at <a href="http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp+Lite">http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite</a>
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	5 milliseconds (AC to battery mode), 1 millisecond (Battery to AC mode)
Low Voltage Transfer to Battery Power (Setpoint)	83
High Voltage Transfer to Battery Power (Setpoint)	145
<b>SPECIAL FEATURES</b>	
Grounding Lug	Back panel grounding lug



Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
<b>CERTIFICATIONS</b>	
UPS Certifications	ENERGY STAR Qualified; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	5-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>

© 2018 Tripp Lite. All rights reserved. All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies: <https://www.tripplite.com/products/product-certification-agencies>