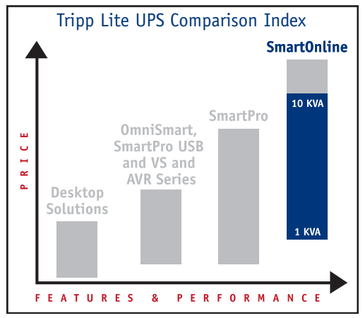
SmartOnline™ Single-Phase Intelligent True On-Line UPS Systems

SU1000RTXL2Ua, SU1500RTXL2Ua & SU2200RTXL2Ua

SU3000RTXL3Ua & SU3000RTXL3UHV

SU5000RT3U, SU5000RT3UHV, SU6000RT3UHV, SU6000RT3U, SU6000RT3UXR, SU10KRT3UHV & SU10KRT3U



Additional Single- and 3-Phase solutions available—1kVA to 80kVA!

See pages 10 to 15.

TRUE ON-LINE

- 1,000 - 10,000 VA
- Zero Transfer Time, Double-Conversion
- 65-138V or 156-276V Input with Precision Regulated Output
- Internal or External Batteries & Extended Runtime Options
- Automatic Internal Bypass
- Rack/Tower/Stack Adaptable

Deliver True On-Line, Pure Sine Wave, Zero Transfer Time Operation

SmartOnline Rackmount/Tower UPS Systems provide mission-critical equipment with the highest level of power protection. Double-conversion technology continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. SmartOnline models accept the widest range of incoming voltage and frequency variations, delivering the most consistently pure, highly-regulated AC power: ±2% V and ±0.2 Hz.

SmartOnline Rackmount/Tower UPS Systems provide reliable battery power with zero transfer time to keep networks up and running safely through short blackouts and allow enough time to safely shut down during longer ones. In addition, they stop damaging lightning and surges and filter disruptive line noise.

Provide 100% Availability

All models ensure 100% availability with an automatic internal bypass which passes through utility power in the event of an internal fault or overload. In addition SU6000RT3U, SU6000RT3UXR and SU10KRT3U models include a manual bypass switch on the transformer module which ensures 100% availability by allowing you to remove or replace the power module while still continuously supporting connected equipment with filtered AC utility power.

Manage Multiple Servers

Multiple built-in communication ports provide the ability to simultaneously manage multiple servers without the need for costly accessories. Using PowerAlert Software, select models with multiple communication ports will simultaneously provide intelligent communications, shutdown commands and reporting on multiple servers even if they are running different operating systems.* Intelligent communications allow you to check UPS status (including battery charge level) and AC power status as well as reboot Customized Load Management Receptacles.

** Additional PowerAlert features: pages 18 and 19.*

Control Individual Outlets

Prioritize the uptime of mission-critical loads during a power failure with Customized Load Management Receptacles featured on select models. Customized Load Management Receptacles can be controlled independently through PowerAlert. Program PowerAlert to reboot a locked up computer by cycling the power on and off to select receptacles on the UPS system. You can also program PowerAlert to shut down less important systems during an extended blackout, preserving battery runtime for more critical equipment.

Extend Runtime

All models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $50,000 per hour according to a recent survey on the cost of lost productivity for an hour of network downtime.* Locate your planned load and optimum runtime on the chart to the right.

* Yankee Group.

Extending runtime is as simple as plugging in additional external battery packs.

Adapt to Rack/Tower/Stack Applications

Adapt all models from rackmount to tower or stacking applications.*

- Removable rack hardware
- Optional base stands

SU3000RTXL3Ua tower mount with optional base stands.

SU6000RT3U or SU10KRT3U tower mount with optional base stands.

** Optional base stands (model: 2-9USTAND) are available to adapt any combination of models, from 2U to 9U wide, to tower mounting.*

EXTENDED RUNTIME CHART

Load (VA/Watts)	Runtime (minutes) with included batteries*	Runtime (minutes) with additional external battery packs: Non-Expandable Battery Pack	Expandable Battery Pack(s)** 1	2	3	4
SU1000RTXL2Ua Extended Runtime		***BP24V28-2U (Non-Expandable)***			***BP24V70-3U (Expandable)***	
500/400	18	74	192	427	660	930
1000/800	6	33	90	192	306	432
SU1500RTXL2Ua Extended Runtime		***BP48V24-2U (Non-Expandable)***			***BP48V60RT-3U (Expandable)***	
750/600	17	77	168	336	500	670
1500/1200	5	38	82	166	258	336
SU2200RTXL2Ua Extended Runtime		***BP48V24-2U (Non-Expandable)***			***BP48V60RT-3U (Expandable)***	
1100/800	18	66	132	266	378	530
2200/1600	6	28	61	122	186	246
SU3000RTXL3Ua & SU3000RTXL3UHV Extended Runtime					***BP72V12-2U (Expandable)***	
1500/1200	17	N/A	39	62	91	111
3000/2400	6	N/A	17	28	37	48
SU5000RT3UHV & SU5000RT3U Extended Runtime					***BP240V10RT-3U (Expandable)***	
2500/1750	26	N/A	68	131	188	247
5000/3500	11	N/A	31	60	87	118
SU6000RT3UHV & SU6000RT3U Extended Runtime					***BP240V10RT-3U (Expandable)***	
3000/2400	37	N/A	79	131	174	222
6000/4800	15	N/A	37	58	79	104
SU6000RT3UXR Extended Runtime					***BP240V10RT-3U (Expandable)***	
3000/2400	79	N/A	131	174	222	268
6000/4800	37	N/A	58	79	104	131
SU10KRT3UHV & SU10KRT3U Extended Runtime					***BP240V10RT-3U (Expandable)***	
5000/4000	20	N/A	45	71	98	130
10000/8000	8	N/A	19	32	45	58

* Included batteries are contained either internally within the UPS system or are offered as an external module, depending on model. ** Battery packs which are "expandable" can be connected together for increased runtime.

For additional extended runtime solutions to fit your specific load requirements, use Tripp Lite's interactive UPS Selector Guide at www.tripplite.com/selector/ups, or call Tripp Lite's Application Specialists at (773) 869-1236.

Display Critical Operational Conditions

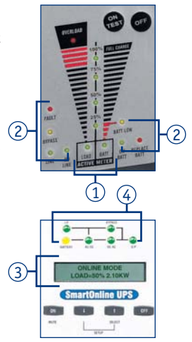
SmartOnline Rackmount/Tower UPS Systems feature a front panel LED display or combination LCD/LED display (on 6kVA and 10kVA models) which displays a variety of UPS operational modes and conditions. This interface provides more information than comparable models, allowing you to react more rapidly to an alert before your systems are put at risk.

LED Display— ①**Battery & Load Conditions:** The Load and Battery Active Meters allow you to monitor the percentage levels (25% - 100%) of two conditions: 1) battery charge as equipment is supported by the UPS system during a blackout, and 2) the total amount of the UPS system's capacity that the equipment load is utilizing under normal operating conditions.

②**Fault/Warning & UPS System Operational Conditions:** LED set alerts you to several fault conditions (including wiring faults in the wall outlet) and warning conditions (including the need to recharge or replace the UPS system's internal battery). It also indicates UPS system operational status including normal on-line operation, bypass operation (due to fault or overload) or on-battery operation (due to a blackout or severe brownout).

Combination LCD/LED Display— ③**LCD Display:** LCD Display lets you access more precise information than provided by LEDs alone. View over 45 separate fault/warning and UPS system operational conditions including operational mode, alarm/shutdown conditions, input/output voltage/frequency, battery voltage, load percentage and more.

④**LED Display:** LED set is organized into a flow chart that indicates UPS system operational status, including normal on-line operation, bypass operation (due to fault or overload) or on-battery operation (due to a blackout or severe brownout).



Adapt 6kVA Hardwired Models to Plug/Receptacle Applications

Tripp Lite offers five alternate back panel units (SUPDM11, SUPDM12, SUPDM13, SUPDM15 and SUPDM16)* which adapt 6kVA hardwired models to applications that require plugs and receptacles.

** See specifications chart on page 9 for details.*

SUPDM12 Alternate Back Panel Unit.

Feature Focus

A Extended Runtime Capability
All models feature connectors to accept optional external battery packs for additional runtime. External batteries can be "hot-swapped". See Extended Runtime Chart on page 7 to locate the perfect SmartOnline Rackmount/Tower model that fits your runtime needs.

B Customized Load Management
Select models feature special receptacles that you control independently through PowerAlert Software.

C Server Support
Up to two built-in communication ports on select models simultaneously provide shutdown commands and reporting on multiple servers without the need for costly accessories.

D NMS Integration
Accessory slot accepts an optional internal SNMP/Web card* for remote shutdowns, reboots and more. Use card with optional environmental sensor** to remotely monitor environmental conditions or to control alarm/security systems.
* Model: SNMPWEBCARD. ** Model: ENVIROSENSE.

E Short Circuit Protection
Circuit breakers help guard against input/output short circuits.

SU2200RTXL2Ua UPS System Rear Panel with Internal Batteries.

SU3000RTXL3Ua UPS System Rear Panel with Internal Batteries.

Power Module Rear Panel (standard with all 6 & 10kVA models. SU6000RT3U shown). Includes the UPS system's control panel, communication ports and inverter/charger components.

External Battery Module Rear Panel (standard with all 6 & 10kVA models. SU6000RT3UXR model includes two external battery modules. BP240V10RT-3U shown). Supplies battery backup to connected equipment during a blackout.

Isolation Multi-Voltage Power Distribution Transformer Module (standard with SU6000RT3U, SU6000RT3UXR & SU10KRT3U models only. SU6000XFMRRT3U shown). Accepts regulated input from the power module and provides 200/208/220/230/240V and 100/120V output.

Bypass Operation: A manual bypass switch on the transformer module (included with select UPS models only) allows you to circumvent the power module while still continuously supporting connected equipment when performing maintenance. **I**

F Emergency Power Off
A modular jack included with 6KVA and 10KVA models allows remote emergency shutdown. All other models can perform emergency shutdown by attaching an optional cable (model 73-0909, sold separately) to the communication port. The optional cable includes a DB9 connector to allow server support and a modular jack to allow emergency shutdown.

G Hardwire, Single-Phase Input/Output
To add a plug and receptacles to 6kVA models, see SUPDM options listed below. To provide 100/120V output for 5kVA, 6kVA and 10kVA models, see isolation transformer options listed below.

H Phone/DSL/Ethernet Surge Protection (Select Models)
Protect Internet-connected or networked computers from damage on a single phone/DSL/Ethernet line with surge-protected jacks featured on select models.

Front Panel Battery Replacement (not shown)
1,000 to 3,000 VA models feature a convenient front access door to replace internal batteries.* All models allow "hot-swap" battery replacement.
** Tripp Lite offers a complete line of replacement battery cartridges (R.B.C.); visit www.tripplite.com.*

Specifications

Model	Output Capacity (VA/ Watts)	Backup Time (Typical Minutes) Half/Full Load[B]	Optional External Battery Packs	Rack Space	Input Voltage Range/ Frequency (Hz)	Nominal Output Voltage	AC Receptacles Quantity	AC Receptacles NEMA Type	Customized Load Management Receptacles	Comm. Ports USB	Comm. Ports "Smart" RS-232 (DB9)	Comm. Ports Contact Closure (DB9)	Phone/ DSL/ Ethernet[G] Surge Protection	SNMP/ Web Accessory Slot[F]	Input Plug (NEMA)	Power Cord Length (ft)	Unit Dimensions H x W x D (in)[G]	Shipping Weight (lb)
UPS Systems																		
SU1000RTXL2Ua	1000/ 800	18/6+	A B	2U	65-138 (50/60)[C]	120	6	5-15R	2	1	1[D]	—	1 line	yes	5-15P	10	3.5 x 17.5 x 13.5	41
SU1500RTXL2Ua	1500/ 1200	17/5+	C D	2U	65-138 (50/60)[C]	120	6	5-15R	2	1	1[D]	—	1 line	yes	5-15P	10	3.5 x 17.5 x 19	54
SU2200RTXL2Ua	2200/ 1600	18/6+	C D	2U	65-138 (50/60)[C]	120	7	6 (5-15/20R), 1 (L5-20R)	2	1	1[D]	—	1 line	yes	5-20P[H]	10	3.5 x 17.5 x 19	58
SU3000RTXL3Ua	3000/ 2400	17/6+	E F	3U	65-138 (50/ 60)[C]	120	9	4 (5-15R), 4 (5-15/20R), 1 (L5-30R)	2	1	1[D]	—	1 line	yes	L5-30P	10	5.25 x 17.5 x 18	74
SU3000RTXL3UHV	3000/ 2400	17/6+	E F	3U	130-275 (50/60)[C]	200/ 208/220/ 230/240	8	6 (6-20R), 2 (L6-20R)	2	—	1[D]	—	—	yes	L6-20P	10	5.25 x 17.5 x 20	91
SU5000RT3U	5000/ 3500	26/11+	G H	3U (power module) & 2U (battery module) 2U (transformer module)	156-276 (50/ 60)[C]	200/ 208/220/ 230/240 & 100/ 120	16	2 (L6-20R) 2 (L6-30R) 12 (5-15/20R)	—	—	1	1	—	yes	L6-30P	10	5.25 x 17.5 x 26 (power module) 3.5 x 17.5 x 22.5 (battery module) 3.5 x 17.5 x 21 (transformer module)	58 138 60
SU5000RT3UHV[A]	5000/ 3500	26/11+	G H	3U (power module) & 2U (battery module)	156-276 (50/ 60)[C]	200/ 208/220/ 230/240	4	2 (L6-20R) 2 (L6-30R)	—	—	1	1	—	yes	L6-30P	10	5.25 x 17.5 x 26 (power module) 3.5 x 17.5 x 22.5 (battery module)	58 138
SU6000RT3UHV[A]	6000/ 4800	37/15+	G H	3U (power module) & 3U (battery module)	156-276 (50/ 60)[C]	200/ 208/220/ 230/240	hardwire see SUPDM11 option below)		—	—	1	1	—	yes	hardwire (see SUPDM11 options below)		5.25 x 17.5 x 26 (power module) 5.25 x 17.5 x 22.5 (battery module)	58 127
SU6000RT3U	6000/ 4800	37/15+	G H	3U (power module) 3U (battery module) & 3U (transformer module)	156-276 (50/ 60)[C]	200/208/ 220/230/ 240 & 100/120	hardwire (see SUPDM12-16 options below)		—	—	1	1	—	yes	hardwire (see SUPDM 12-16 options below)		5.25 x 17.5 x 26 (power module) 5.25 x 17.5 x 22.5 (battery module) 5.25 x 17.5 x 26 (transformer module)	58 127 124
SU6000RT3UXR	6000/ 4800	79/37+	G H	3U (power module) 6U **(2 battery modules)** & 3U (transformer module)	156-276 (50/ 60)[C]	200/208/ 220/230/ 240 & 100/120	hardwire (see SUPDM12-16 options below)		—	—	1	1	—	yes	hardwire (see SUPDM 12-16 options below)		5.25 x 17.5 x 26 (power module) 10.5 x 17.5 x 22.5 **(2 battery modules)** 5.25 x 17.5 x 26 (transformer module)	58 254 124
SU10KRT3UHV[A]	10000/ 8000	20/8+	G H	3U (power module) & 3U (battery module)	156-276 (50/ 60)[C]	200/208/ 220/ 230/240	hardwire		—	—	1	1	—	yes	hardwire		5.25 x 17.5 x 26 (power module) 5.25 x 17.5 x 22.5 (battery module)	68 127
SU10KRT3U	10000/ 8000	20/8+	G H	3U (power module) 3U (battery module) & 3U (transformer module)	156-276 (50/ 60)[C]	200/208/ 220/230/ 240 & 100/120	hardwire		—	—	1	1	—	yes	hardwire		5.25 x 17.5 x 26 (power module) 5.25 x 17.5 x 22.5 (battery module) 5.25 x 17.5 x 26 (transformer module)	68 127 124
External Battery Packs and Accessories																		
A **BP24V28-2U**	24V external battery pack and cable, 2U. Not expandable. RED/BLACK 2-point connector.																3.5 x 17.5 x 14	68
B **BP24V70-3U**	24V external battery pack and cable, 3U. Expandable. RED/BLACK 2-point connector.																5.25 x 17.5 x 22.5	160
C **BP48V24-2U**	48V external battery pack and cable, 2U. Not expandable. BLUE 2-point connector.																3.5 x 17.5 x 13.5	70
D **BP48V60RT-3U**	48V external battery pack and cable, 3U. Expandable. BLUE 2-point connector.																5.25 x 17.5 x 22.5	160
E **BP72V12-2U**	72V external battery pack and cable, 2U. Expandable. BLACK 3-point connector.																3.5 x 17.5 x 12.25	60
F **BP72V21RT-3U**	72V external battery pack and cable, 3U. Expandable. BLACK 3-point connector.																5.25 x 22.5 x 17.5	148
G **BP240V10RT-3U**	240V external battery pack and cable, 3U. Expandable. BLACK 3-point connector.																5.25 x 17.5 x 22.5	127
H **BP240V32**	240V external battery pack and cable, tower mount. Expandable. BLACK 3-point connector. Will fit in standard 19 inch rack enclosures.																20 x 17.5 x 35.5	611
SU5000XFMRRT2U	2U rack/tower mount isolation transformer. 208V input (L6-30P plug), 100/120V output. Outlets: 12 (5-15/20R) (for SU5000RT3UHV model only).																3.5 x 17.5 x 21	60
SU6000XFMRRT3U	3U rack/tower mount isolation transformer. 220-240V hardwired input, 100/120V hardwired output (for SU6000RT3UHV model only).																5.25 x 17.5 x 26	117
SU10KXFMRRT3U	3U rack/tower mount isolation transformer. 220-240V hardwired input, 100/120V hardwired output (for SU10KRT3UHV model only).																5.25 x 17.5 x 26	135
SUPDM11	Converts hardwired to L6-30P plug/cord & two L6-30R outlets. **208V** (for SU6000RT3UHV model only).																	7
SUPDM12	Converts hardwired to L6-30P plug/cord & 13 outlets: ten **120V** (5-15/20R), two **208V** (L6-20R), one **208V** (L6-30R) (for SU6000RT3U & SU6000RT3UXR models only).																	7
SUPDM13	Converts hardwired to L6-30P plug/cord & 13 outlets: ten **120V** (5-15/20R), two **240V** (L6-20R), one **240V** (L6-30R) (for SU6000RT3U & SU6000RT3UXR models only).																	7
SUPDM15	Converts hardwired to L6-30P plug/cord & 13 outlets; ten **120V** (5-15/20R), three **240V** (L6-30R) (for SU6000RT3U & SU6000RT3UXR models only).																	7
SUPDM16	Converts hardwired to L6-30P plug/cord & 13 outlets; ten **120V** (5-15/20R), three **208V** (L6-30R) (for SU6000RT3U & SU6000RT3UXR models only).																	7
SNMPWEBCARD	Internal SNMP/Web management accessory card (connects compatible UPS systems to Ethernet).																	
ENVIROSENSE	Allows UPS to monitor external temperature/humidity & contact-closure inputs (requires SNMPWEBCARD).																	
2-9USTAND	Tower kit with 2 adjustable base stands—2U to 9U.																	
2POSTRMKIT	Horizontal mounting rails for 2-post rackmount installation. For all UPS and battery pack models.																	

+ Backup times are expandable using external battery packs. [A] Optional isolation transformers are available to provide 100/120V output. See listing for SU5000XFMRRT2U, SU6000XFMRRT3U or SU10KXFMRRT3U, depending on your UPS system model. [B] Backup times will vary depending on battery condition and load. [C] Auto-selecting frequency. [D] Includes a single combination RS-232 and contact-closure port. [E] Not compatible with PoE (power over Ethernet) applications. [F] For use with optional internal SNMP/Web management accessory card (model: SNMPWEBCARD) sold separately. [G] All models are designed with mounting hardware to fit standard 19 in. racks. Model widths are for the UPS case only, without mounting hardware. [H] This model includes an additional 5-15P plug which can be installed in place of the existing plug. Installing the additional plug will change the output capacity. The policy of Tripp Lite is one of continuous improvement. Specifications are subject to change without notice. Actual product may differ slightly from photos.

Extended Warranties and On-Site Service/Warranty Programs are available separately at www.tripplite.com