

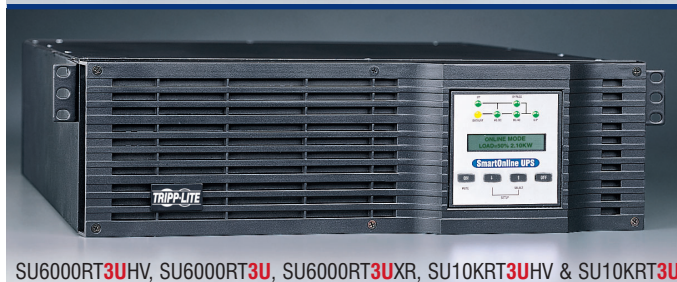
SmartOnline™ Intelligent True On-Line UPS Systems



SU1000RTXL2U, SU1500RTXL2U & SU2200RTXL2U



SU3000RTXL3U & SU3000RTXL3UHV



SU6000RT3UHV, SU6000RT3U, SU6000RT3UXR, SU10KRT3UHV & SU10KRT3U

Application:

- Servers • Datacenters
- Internetworking Equipment
- ISP/Telecom/Lab Equipment

TRUE ON-LINE

- ▶ 1,000 – 10,000 VA
- ▶ Zero Transfer Time, Dual-Conversion
- ▶ 65-138V or 156-276V Input with Precision Regulated Output
- ▶ Internal or External Batteries & Extended Runtime Capability*
- ▶ Rack/Tower/Stack Adaptable

* With external battery packs.

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

SmartOnline Rackmount UPS Systems provide mission-critical equipment with the highest level of power protection. Dual-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: $\pm 2\%$ V and ± 0.2 Hz.

SmartOnline Rackmount 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 During Maintenance

SU6000RT3U, SU6000RT3UXR and SU10KRT3U models include a power module, a battery module and a transformer module. A manual bypass switch on the transformer module 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

Manage multiple servers simultaneously at no extra cost with multiple built-in communication ports. Using PowerAlert Software, select models with multiple communications ports will simultaneously provide intelligent communication, 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 14 and 15.

Control Individual Outlets

Prioritize the uptime of your most mission-critical loads during a power failure with Customized Load Management Receptacles featured on select models. Customized Load Management Receptacles are divided into separate banks that you can control 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

Without enough runtime, you 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.* All models accept external battery packs to provide all the runtime you need! 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. Included base stands transform all models into tower format.

- Removable rack hardware
- Included base stands



SU3000RTXL3U tower mount with included base stands.



SU6000RT3U or SU10KRT3U tower mount with included base stands.

EXTENDED RUNTIME CHART

Load (VA/Watts)	Runtime (minutes) with included batteries*	Runtime (minutes) with additional external battery packs				
		1	2	3	4	5
<i>SU1000RTXL2U Extended Runtime (with BP36V14-2U battery packs)</i>						
500/400	18	67	123	186	246	312
1000/800	6	32	58	90	123	156
<i>SU1500RTXL2U Extended Runtime (with BP48V21-2U battery packs)</i>						
750/600	17	79	144	210	276	336
1500/1200	5	39	68	104	138	168
<i>SU2200RTXL2U Extended Runtime (with BP48V21-2U battery packs)</i>						
1100/800	18	64	113	168	222	276
2200/1600	6	24	56	82	108	131
<i>SU3000RTXL3U Extended Runtime (with BP72V12-2U battery packs)</i>						
1500/1200	17	39	62	91	111	138
3000/2400	5	17	28	37	48	63
<i>SU6000RT3UHV & SU6000RT3U Extended Runtime (with BP240V10RT-3U battery packs)</i>						
3000/2100	37	79	131	174	222	268
6000/4200	15	37	58	79	104	131
<i>SU6000RT3UXR Extended Runtime (with BP240V10RT-3U battery packs)</i>						
3000/2100	79	131	174	222	268	336
6000/4200	37	58	79	104	131	147
<i>SU10KRT3UHV & SU10KRT3U Extended Runtime (with BP240V10RT-3U battery packs)</i>						
5000/3500	20	45	71	98	130	156
10000/7000	8	19	32	45	58	74

* SU6000RT3UHV, SU6000RT3U, SU6000RT3UXR, SU10KRT3UHV and SU10KRT3U do not include internal batteries; they include an external battery module, standard. SU6000RT3UHV, SU6000RT3U, SU10KRT3UHV and SU10KRT3U include a single BP240V7RT-3U external battery module, standard. SU6000RT3UXR includes two BP240V7RT-3U external battery modules, standard. Call Tripp Lite's Application Specialists at (773) 869-1236 for additional extended runtime solutions to fit your specific load requirements.

Display Critical Operational Conditions

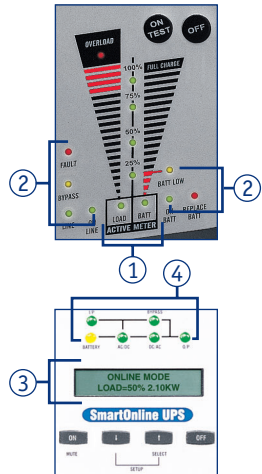
SmartOnline Rackmount UPS Systems feature a front panel LED display or combination LCD/LED display (on 6kVA and 10kVA models) which alerts you to a variety of UPS operational modes and conditions. This easy-to-read interface provides more information than comparable models, allowing you to react more 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 your equipment is supported by the UPS system during a blackout, and 2) the total amount of the UPS system's capacity that your 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 online 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 an easy-to-read flow chart that indicates UPS system operational status, including normal online operation, bypass operation (due to fault or overload) or on-battery operation (due to a blackout or severe brownout).



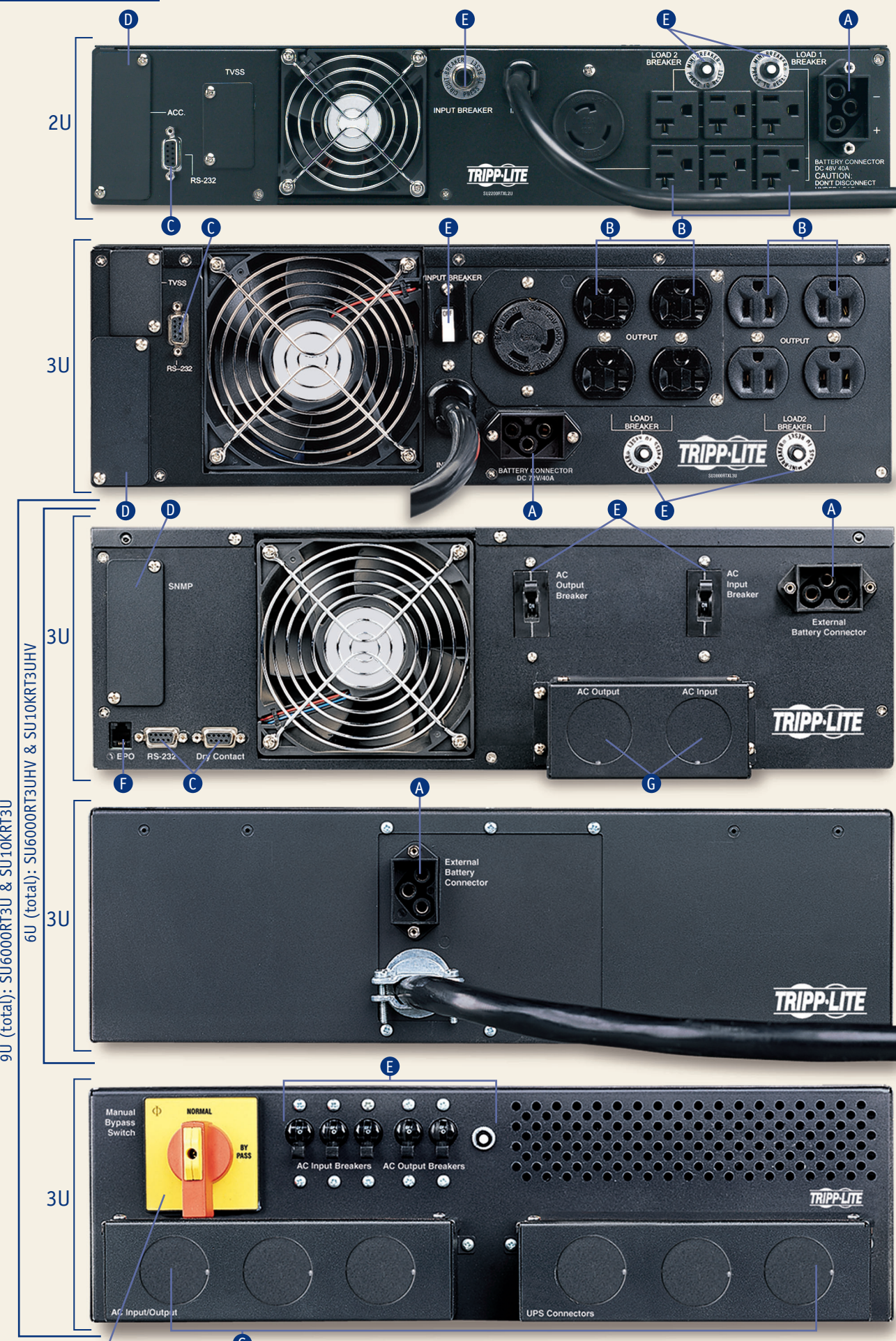
Adapt 6kVA Hardwired Models to Plug/Receptacle Applications

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

* See specifications chart on page 9 for details.



SUPDM12 Alternate Back Panel Unit.



SU2200RTL2U
UPS System Rear
Panel with Internal
Batteries.

SU3000RTL3U
UPS System Rear
Panel with Internal
Batteries.

Power Module Rear
Panel (standard with
all 6 & 10kVA models).
Includes the UPS system's
control panel, communication
ports and inverter/charger
components. The power
module works in conjunction
with the battery module to
deliver true on-line, pure
sine wave power to
connected equipment.
Compatible with SUPDM11
when used with
SU6000RT3UHV only.

External Battery
Module Rear Panel
(standard with all 6 &
10kVA models.
SU6000RT3UXR
model includes two
external battery
modules.)
Supplies battery backup
to connected equipment
during a blackout. The battery
module works in conjunction
with the power module to
deliver true on-line, pure
sine wave power to connected
equipment.

Isolation Multi-Voltage
Power Distribution
Transformer Module
(standard with
SU6000RT3U,
SU6000RT3UXR &
SU10KRT3U
models only)
Accepts regulated input from
the power module and
provides 200/208/
220/230/240V and 100/
120V output. Compatible with
SUPDM12 and SUPDM13
when used with SU6000RT3U
and SU6000RT3UXR only.

H 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.

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 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

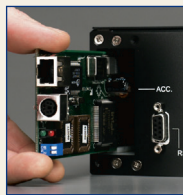
Up to two built-in communication ports on select models simultaneously provide shutdown commands and reporting on

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.

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 "Y" cable (model 73-0901, sold separately) to the communication port. The optional "Y" cable includes a DB9 connector to allow server support and a modular jack to allow emergency shutdown.

G Hardwire, Single-Phase Input/Output

Connects either the power module output or the transformer module output (depending on model) to your equipment or a PDU (power distribution unit). Also connects the power module input to a transformer module (when available) or directly to the

utility power source. All hardwire models accept 156V - 276V input and provide 200/208/220/230/240V output. Models which are connected to transformer modules also provide 100/120V output. Tripp Lite offers three alternate back panel units (SUPDM11, SUPDM12 and SUPDM13) which adapt 6kVA hardwired models to a variety of applications which require plugs and receptacles.

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 ^(A)	Rack Space	Input Voltage Range/Frequency (Hz)	Nominal Output Voltage	AC Receptacles Quantity	NEMA Type	Customized Load Management Receptacles	Comm. Port RS-232 (DB9)	Port Contact Closure (DB9)	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															
SU1000RTXL2U	1000/800	18/6+	2U	65-138 ^(B) (50/60) ^(D)	120	6	5-15R	2 banks of 2	1 ^(E)	—	yes	5-15P	6	3.5 x 17.5 x 17	63
SU1500RTXL2U	1500/1200	17/5+	2U	65-138 ^(B) (50/60) ^(D)	120	6	5-15R	1 bank of 2 1 bank of 4	1 ^(E)	—	yes	5-15P	10	3.5 x 17.5 x 22	64
SU2200RTXL2U	2200/1600	18/6+	2U	65-138 ^(B) (50/60) ^(D)	120	7	6 (5-15/20R), 1 (L5-20R)	2 banks of 3	1 ^(E)	—	yes	5-20P	10	3.5 x 17.5 x 22	70
SU3000RTXL3U	3000/2400	17/5+	3U	65-138 ^(B) (50/60) ^(D)	120	9	4 (5-15R), 4 (5-15/20R), 1 (L5-30R)	2 banks of 4	1 ^(E)	—	yes	5-20P	10	5.25 x 17.5 x 19.8	90
SU3000RTXL3UHV	3000/2400	17/5+	3U	200-240 (50/60) ^(D)	200/208/220/230/240	8	6 (6-20R), 2 (L6-20R)	1 bank of 4 1 bank of 2	1 ^(E)	—	yes	L6-30P	10	5.25 x 17.5 x 19.8	91
SU6000RT3UHV	6000/4200	37/15+	3U (power module) & 3U (battery module)	156-276 ^(C) (50/60) ^(D)	200/208/220/230/240	hardwire (see SUPDM options below)		—	1	1	yes	hardwire (see SUPDM options below)		5.25 x 17.5 x 22.5 (power module) 5.25 x 17.5 x 22.5 (battery module)	58 160
SU6000RT3U	6000/4200	37/15+	3U (power module) & 3U (battery module) & 3U (transformer module)	156-276 ^(C) (50/60) ^(D)	200/208/220/230/240 & 100/120	hardwire (see SUPDM options below)		—	1	1	yes	hardwire (see SUPDM options below)		5.25 x 17.5 x 22.5 (power module) 5.25 x 17.5 x 22.5 (battery module) 5.25 x 17.5 x 26 (transformer module)	58 160 124
SU6000RT3UXR	6000/4200	79/37+	3U (power module) & 6U (2 battery modules) & 3U (transformer module)	156-276 ^(C) (50/60) ^(D)	200/208/220/230/240 & 100/120	hardwire (see SUPDM options below)		—	1	1	yes	hardwire (see SUPDM options below)		5.25 x 17.5 x 22.5 (power module) 10.5 x 17.5 x 22.5 (2 battery modules) 5.25 x 17.5 x 26 (transformer module)	58 320 124
SU10KRT3UHV	10000/7000	20/8+	3U (power module) & 3U (battery module)	156-276 ^(C) (50/60) ^(D)	200/208/220/230/240	hardwire		—	1	1	yes	hardwire		5.25 x 17.5 x 22.5 (power module) 5.25 x 17.5 x 22.5 (battery module)	68 176
SU10KRT3U	10000/7000	20/8+	3U (power module) & 3U (battery module) & 3U (transformer module)	156-276 ^(C) (50/60) ^(D)	200/208/220/230/240 & 100/120	hardwire		—	1	1	yes	hardwire		5.25 x 17.5 x 22.5 (power module) 5.25 x 17.5 x 22.5 (battery module) 5.25 x 17.5 x 26 (transformer module)	68 176 124

External Battery Packs and Accessories

BP36V14-2U	36V external battery pack & cable, 2U rack space (for SU1000RTXL2U models only)	3.5 x 17.5 x 12.75	54
BP48V21-2U	48V external battery pack & cable, 2U rack space (for SU1500RTXL2U & SU2200RTXL2U models only)	3.5 x 17.5 x 13.75	68
BP72V12-2U	72V external battery pack & cable, 2U rack space (for SU3000RTXL3U models only)	3.5 x 17.5 x 12.25	60
BP240V10RT-3U	240V external long runtime battery module & cables, 3U rack space (for SU6000RT3U, SU6000RT3UHV, SU10KRT3U & SU10KRT3UHV models only)	5.25 x 17.5 x 22.5	176
SUPDM11	For SU6000RT3UHV only. Converts hardwired to L6-30P plug/cord & L6-30R outlet. 208V.		7
SUPDM12	For SU6000RT3U & SU6000RT3UXR transformer only. Converts hardwired to L6-30P plug/cord & 13 outlets: ten 120V (5-20R), two 208V (L6-20R), one 208V (L6-30R)		5
SUPDM13	For SU6000RT3U & SU6000RT3UXR transformer only. Converts hardwired to L6-30P plug/cord & 13 outlets: ten 120V (5-20R), two 240V (L6-20R), one 240V (L6-30R)		7
DCOW2	Base with casters (adjustable) for most UPS systems.		
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)		
2-9U STAND	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) Backup times will vary depending on battery condition and load. ^(B) UPS system requires derating below 80 volts. ^(C) Unit requires derating below 160 volts. ^(D) Auto-selecting frequency. ^(E) Includes a single combination RS-232 and contact-closure port. ^(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. The policy of Tripp Lite is one of continuous improvement. Specifications are subject to change without notice. Actual product may differ slightly from photos.

Complete 230 Volt model line and detailed 120V specifications available: www.tripplite.com