

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



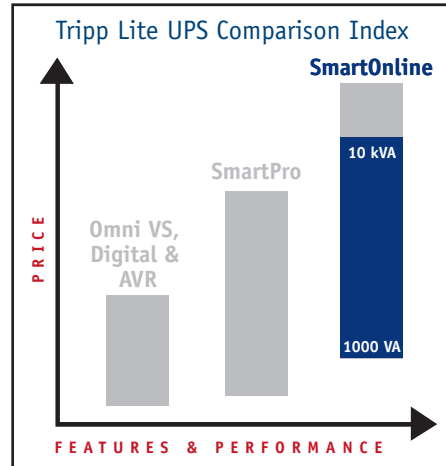
SUINT1000RTL2Ua, SUINT1500RTL2Ua & SUINT2200RTL2Ua



SUINT3000RTL3U



SU6000RT3UHV & SU10KRT3UHV
Power module shown.



Additional Single- and 3-Phase solutions available—1000 VA to 80 kVA! See pages 10 to 15.

TRUE ON-LINE

- ▶ 1,000 - 10,000 VA
- ▶ Zero Transfer Time, Double Conversion
- ▶ Wide Input Voltage Range with Precision-Regulated Output
- ▶ Extended Runtime Options
- ▶ Automatic Internal Bypass

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: $\pm 3\%$ V or $\pm 2\%$ V and ± 0.05 Hz.

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

Manage Multiple Servers

Multiple built-in communication ports provide the ability to simultaneously manage multiple servers. Using PowerAlert Software, select models with multiple communication ports will simultaneously provide intelligent communications,

shutdown commands and reporting on multiple servers.* Intelligent communications allow you to check UPS status (including battery charge level) and AC power status as well as control Customized Load Management Outlets.

* 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 Outlets featured on select models. Customized Load Management Outlets can be controlled independently through PowerAlert. Use PowerAlert to reboot a locked-up computer by cycling the power on and off to select banks of outlets 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.

Provide 100% Availability

All models include an automatic internal bypass that ensures 100% availability of connected equipment by passing through utility power in the event of an internal fault or overload. Model SU10KRT3UHV includes two additional features: a maintenance bypass switch and a hot-swappable modular design. When the switch is set to "bypass", the UPS module can be removed while the detachable PDU module continues to power 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.

* U.S. dollars. ** 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
- Included or optional base stands



SU10KRT3UHV tower mount with optional base stands.



SU10KRT3UHV tower mount with included base stands (shown with additional battery module, sold separately).

* Optional base stands (model: 2-9USTAND) are available to adapt any combination of models, from 2U to 9U wide, to tower mounting. (SU10KRT3UHV includes base stands.)

EXTENDED RUNTIME CHART

Load (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		BP24V28-2U		BP24V70-3U		
400	12	78	200	413	628	841
800	4	32	87	189	295	403
SU1500RTXL2Ua		BP48V24-2U		BP48V60RT3U		
600	14	80	165	334	506	678
1200	4.5	34	71	151	235	320
SU2200RTXL2Ua		BP48V24-2U		BP48V60RT3U		
800	14	56	117	242	370	499
1600	5	23	50	107	168	231
SU3000RTXL3U		BP72V15-2U		BP72V28RT-3U		
1200	14	41	78	158	242	328
2400	5	17	33	69	108	150
SU6000RT3UHV		BP240V10RT3U				
2100	20	N/A	80	131	184	238
4200	8	N/A	33	56	80	105
SU10KRT3UHV		BP240V10RT3U				
4000	10	N/A	35	59	84	110
8000	4	N/A	14	24	34	45

* 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 +1.773.869.1236.

Display Critical Operational Conditions

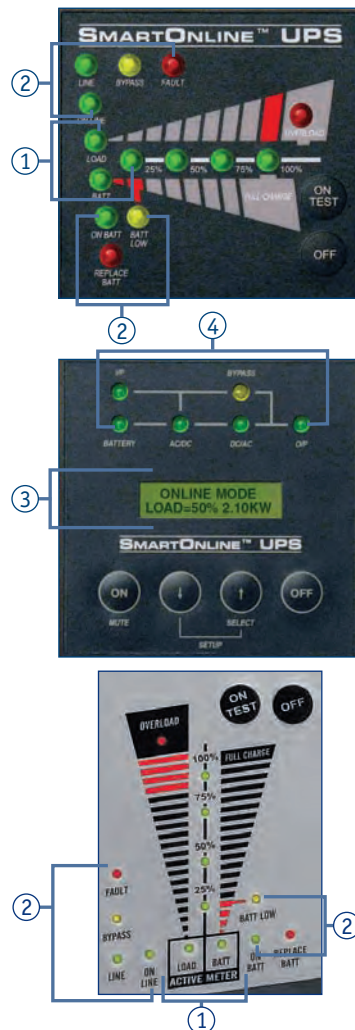
SmartOnline Rackmount/Tower UPS Systems feature a front panel LED display or combination LCD/LED display which shows a variety of UPS operational modes and conditions. This interface provides more information than comparable models, allowing you to react more rapidly to an alert before your systems are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



A Extended Runtime Capability

All models feature connectors that 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 Detachable PDU

Passes through power to connected equipment if UPS module is removed for maintenance.

C Customized Load Management

Select models feature special outlet banks that you control independently through PowerAlert Software.

D 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 accessories.

E Bypass Operation

An external maintenance bypass switch allows the UPS module to be removed for maintenance while continuously passing through utility power to connected equipment.



F 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.

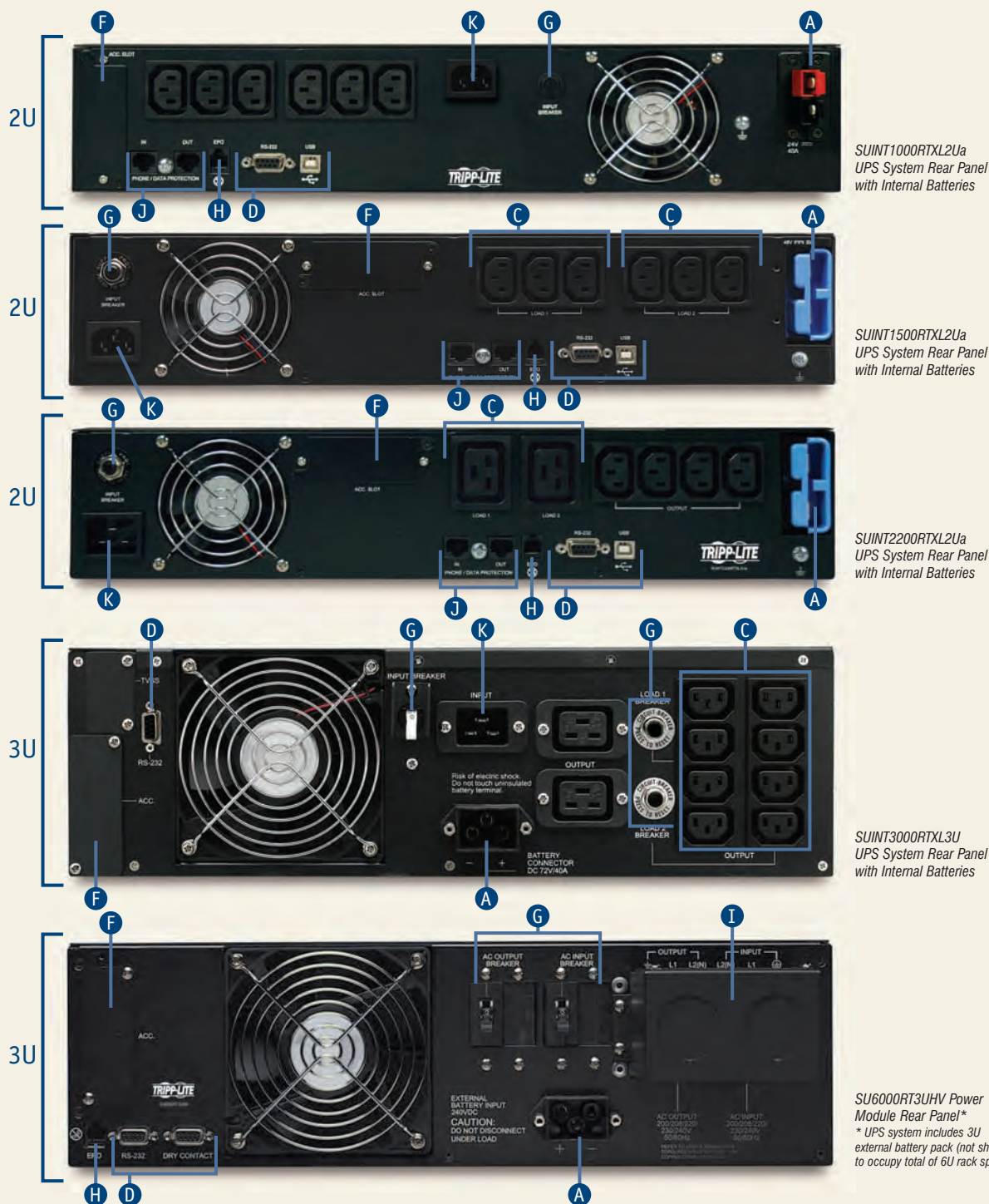
* Model: SNMPWEBCARD. ** Model: ENVIROSENSE.



G Short Circuit Protection

Circuit breakers help guard against input/output short circuits and system overloads.

Standard Models 100% Availability Features: Internal Bypass • Hot-Swappable Batteries



H Emergency Power Off

A modular jack included with select 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.

I Hardwire, Single-Phase Input/Output

Connects the power module output to your equipment or a PDU (power distribution unit). Connects the input directly to the AC power source.

J Tel/DSL/Ethernet Surge Protection (Select Models)

Protect Internet-connected or networked computers from damage on a single Tel/DSL/Ethernet line with surge-protected jacks featured on select models.

K AC Input Connector

Connector (C14 or C20, depending on model) accepts user-supplied cord with country-specific plug. Select models include AC power cables* for connecting equipment to the UPS system's outlets.

* Cables have a C13 end to connect to equipment and a C14 end to connect to the UPS system.

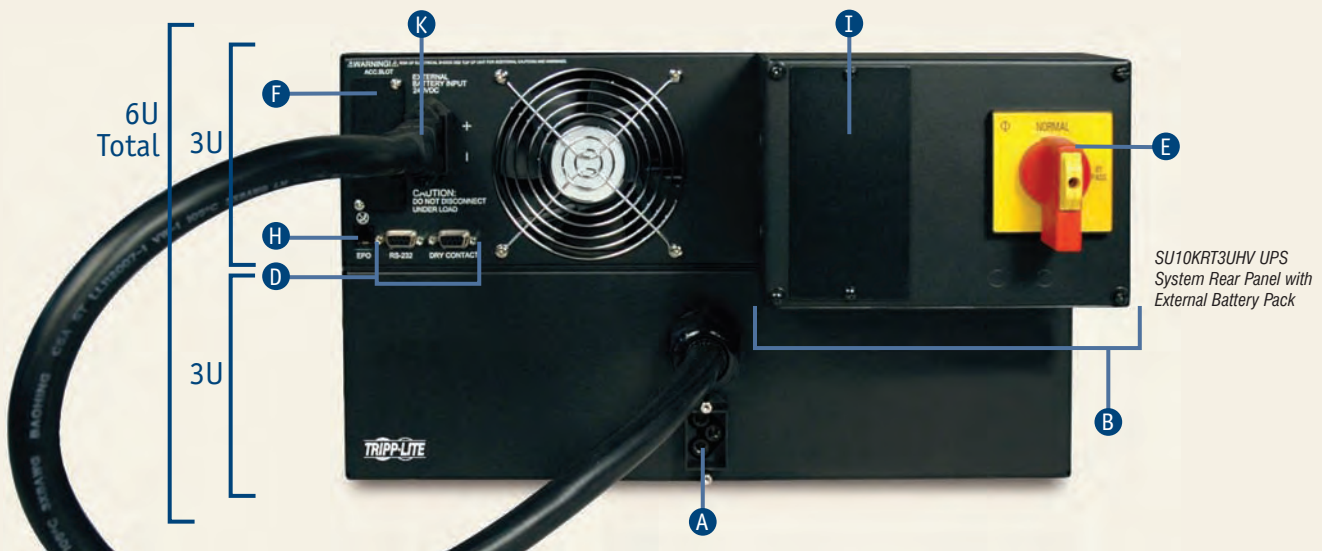
Front Panel Battery Replacement (not shown)

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.

Hot-Swappable Modular Model 100% Availability Features:

Internal Bypass • External Bypass Switch • Modular Design (Detachable UPS Module, PDU Module & Battery Module) • Hot-Swappable Batteries



Specifications



Model	Output Capacity (VA/Watts)	Backup Time (Typical Minutes) Half/Full Load ^(B)	Optional External Battery Packs	Rack Space	Input Voltage Range (Frequency 50/60 Hz)	Nominal Output Voltage (Frequency 50/60 Hz)	Outlet Quantity	Outlet Type	Customized Load Management Outlets	Communication Ports USB RS-232 (DB9)	AC Input Connector ^(F)
UPS Systems											
SUINT1000RTLXL2Ua	1000/800	12/4+	A B	2U	130-275 ^(C)	230 (220/230/240)	6 ^(D)	C13	—	1 1	C14 inlet
SUINT1500RTLXL2Ua	1500/1200	14/4.5+	C D	2U	130-275 ^(C)	230 (220/230/240)	6 ^(D)	C13	2 banks of 3	1 1	C14 inlet
SUINT2200RTLXL2Ua	2200/1600	14/5+	C D	2U	130-275 ^(C)	230 (220/230/240)	6 ^(E)	4 C13, 2 C19	2 banks of 1	1 1	C20 inlet
SUINT3000RTLXL3U	3000/2400	14/5+	E F	3U	130-275 ^(C)	230 (220/230/240)	10 ^(E)	8 C13, 2 C19	2 banks of 4	— 1	C20 inlet
SU6000RT3UHV	6000/4200	20/8+	G	6U (3U power module & 3U battery pack)	156-276	230 (220/230/240)	—	Hardwire	—	—	2 ^(G) Hardwire
SU10KRT3UHV	10000/8000	10/4+	G	6U (3U power module & 3U battery pack)	156-276	230 (220/230/240)	—	Hardwire	—	—	2 ^(G) Hardwire

Model Description

External Battery Packs and Accessories

A BP24V28-2U	24V external battery pack and cable, 2U. Not expandable. RED/BLACK 2-point connector.
B BP24V70-3U	24V external battery pack and cable, 3U. Expandable. RED/BLACK 2-point connector.
C BP48V24-2U	48V external battery pack and cable, 2U. Not expandable. BLUE 2-point connector.
D BP48V60RT3U	48V external battery pack and cable, 3U. Expandable. BLUE 2-point connector.
E BP72V15-2U	72V external battery pack and cable, 2U. Not expandable. BLACK 3-point connector.
F BP72V28RT-3U	72V external battery pack and cable, 3U. Expandable. BLACK 3-point connector.
G BP240V10RT3U	240V external battery pack and cable, 3U. Expandable. BLACK 3-point connector.

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.

2POSTRMKITWM Mounting kit for 2-post rackmount installation. For all UPS and battery pack models.

Common specifications for all UPS systems: SNMP/Web accessory slot (for use with optional SNMPWEBCARD, sold separately). All models are designed with mounting hardware to fit standard 19 in. racks. + Backup times are expandable using external battery packs. (A) Certifications vary by model. (B) Backup times vary depending on battery condition and load. (C) 130-275V at 70% load; 160-275V at 100% load. (D) Includes two C13-to-C14 power cords (2 m and 3.2 m). (E) Includes two C13-to-C14 power cords (2 m) and one C19-to-C20 power cord (3.2 m). (F) Connects to user-supplied input power cord with country-specific plug. Cord requires C13 end to connect to C14 inlet or C19 end to connect to C20 inlet. (G) Models include an RS-232 DB9 port and a relay contact-closure DB9 port. The policy of Tripp Lite is one of continuous improvement. Specifications are subject to change without notice. Actual products may differ slightly from photos.

Complete, up-to-date specifications (including product weight and dimensions) available at www.tripplite.com

Also available: interactive UPS System selector guide, extended warranties, owner's manuals and more!