TRIPP·LITE

Tripp Lite UPS Systems

Reliable, efficient, manageable power and battery backup

Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery backup• Reliable, efficient, manageable power and battery backup • Reliable, efficient, manageable power and battery

Desktop UPS Systems
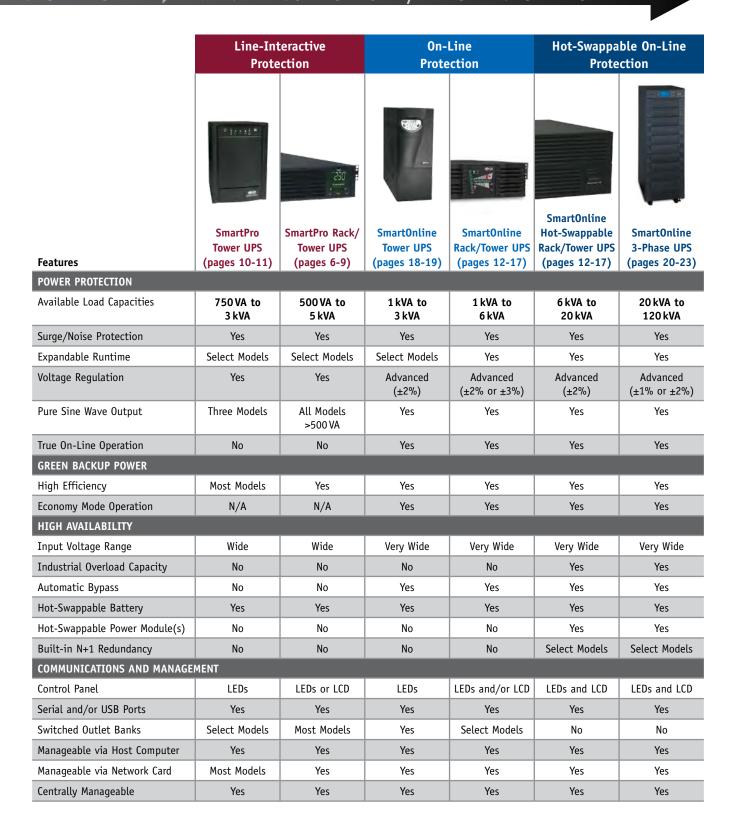
EXTRA PROTECTION / HIGHER CAPACITY ▶ EXTRA PROTECTION / H

Features	Line-Interactive Protection Digital, OmniVS® and AVR Series Line-Interactive UPS (pages 26-27)	Line-Interactive / On-Line Protection Small Network/Server UPS* (≤1500 VA – see page 5)
POWER PROTECTION		
Available Load Capacities	550 VA to 1500 VA	500 VA to 1500 VA
Surge/Noise Protection	Yes	Yes
Data Line Protection	Select Models	Select Models
Voltage Regulation	Yes	Yes
Expandable Runtime	Two Models	Select Models
CONVENIENCE		
Compact Form Factors	Low-Profile or Tower	Tower or Rack/Tower
Simple Operation	Yes	Yes
GREEN BACKUP POWER		
High Efficiency	Most Models	Most Models
COMMUNICATIONS AND MANAGEMENT		
Diagnostic LEDs	Most Models	Select Models
LCD Status Screen	Digital (LCD) Models	Select Models
Serial and/or USB Ports	Yes	Yes
Switched Outlet Banks	No	Select Models
Manageable via Host Computer	Yes	Yes
Centrally Manageable	Yes	Yes

* Although small Network/Server UPS Systems can be ideal for important desktop applications (such as protecting critical workstations), some Network/Server UPS Systems have high-speed cooling fans that may not be suitable for low-noise environments. Contact your Tripp Lite representative for assistance if you are considering this option.

Network/Server UPS Systems

Features	**Line-Interactive Protection**		**On-Line Protection**		**Hot-Swappable On-Line Protection**	
	SmartPro Tower UPS (pages 10-11)	SmartPro Rack/ Tower UPS (pages 6-9)	SmartOnline Tower UPS (pages 18-19)	SmartOnline Rack/Tower UPS (pages 12-17)	SmartOnline Hot-Swappable Rack/Tower UPS (pages 12-17)	SmartOnline 3-Phase UPS (pages 20-23)
POWER PROTECTION						
Available Load Capacities	**750 VA to 3 kVA**	**500 VA to 5 kVA**	**1 kVA to 3 kVA**	**1 kVA to 6 kVA**	**6 kVA to 20 kVA**	**20 kVA to 120 kVA**
Surge/Noise Protection	Yes	Yes	Yes	Yes	Yes	Yes
Expandable Runtime	Select Models	Select Models	Select Models	Yes	Yes	Yes
Voltage Regulation	Yes	Yes	Advanced (±2%)	Advanced (±2% or ±3%)	Advanced (±2%)	Advanced (±1% or ±2%)
Pure Sine Wave Output	Three Models	All Models >500 VA	Yes	Yes	Yes	Yes
True On-Line Operation	No	No	Yes	Yes	Yes	Yes
GREEN BACKUP POWER						
High Efficiency	Most Models	Yes	Yes	Yes	Yes	Yes
Economy Mode Operation	N/A	N/A	Yes	Yes	Yes	Yes
HIGH AVAILABILITY						
Input Voltage Range	Wide	Wide	Very Wide	Very Wide	Very Wide	Very Wide
Industrial Overload Capacity	No	No	No	No	Yes	Yes
Automatic Bypass	No	No	Yes	Yes	Yes	Yes
Hot-Swappable Battery	Yes	Yes	Yes	Yes	Yes	Yes
Hot-Swappable Power Module(s)	No	No	No	No	Yes	Yes
Built-in N+1 Redundancy	No	No	No	No	Select Models	Select Models
COMMUNICATIONS AND MANAGEMENT						
Control Panel	LEDs	LEDs or LCD	LEDs	LEDs and/or LCD	LEDs and LCD	LEDs and LCD
Serial and/or USB Ports	Yes	Yes	Yes	Yes	Yes	Yes
Switched Outlet Banks	Select Models	Most Models	Yes	Select Models	No	No
Manageable via Host Computer	Yes	Yes	Yes	Yes	Yes	Yes
Manageable via Network Card	Most Models	Yes	Yes	Yes	Yes	Yes
Centrally Manageable	Yes	Yes	Yes	Yes	Yes	Yes

A **Extended Runtime Capability**
Select models feature connectors that accept optional external battery packs for additional runtime. External batteries can be "hot-swapped". Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

B **Switched Outlet Banks**
Prioritize the uptime of mission-critical loads during a power failure. Select models feature switched outlet banks that you can control independently through PowerAlert software. Use PowerAlert to reboot a locked-up computer or to shut down less important systems during extended blackouts, preserving battery runtime for critical equipment.

C **Accessory Card Slot**
Accepts optional internal SNMPWEBCARD or RELAYIOCARD. SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity or to monitor alarms and security systems. RELAYIOCARD provides a programmable contact closure interface with 6 outputs and 1 input.

D **Flexible Output Options**
C13 and/or C19 outlets ensure maximum compatibility with equipment worldwide.

E **Communication Ports**
Built-in USB and/or serial ports simultaneously provide shutdown commands and reporting on multiple servers.

F **Short Circuit Protection**
Breakers safeguard your equipment and the UPS.

G **Emergency Power Off (EPO)**
A jack included with all models allows remote emergency shutdown.

H **AC Input Connector**
C14 or C20 inlet (depending on model) connects to a user-supplied cord and plug compatible with local AC outlets.

I **Hardwire Input**

Front Panel Battery Replacement (Not Shown)
Most models feature a removable panel which allows for internal battery replacement.* Internal batteries can be "hot-swapped".

* Tripp Lite offers a complete line of replacement battery cartridges (R.B.C.) at www.tripplite.com.

Mounting Hardware (Not Shown)
Included mounting hardware supports 4-post rack installation. 1U models also support tower and 2-post rack installation. 2U and larger models require optional mounting accessories for tower or 2-post rack installation.
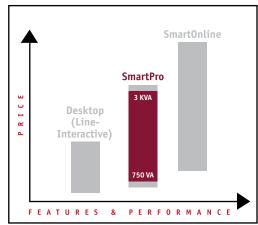
Specifications

Model	Output Capacity	Typical Half-Load Runtime[1]	Extended Runtime	Total Rack Size	Nominal AC Voltage (50/60 Hz)	AC Outlet Quantity (Type) [Switched Outlet Banks]	USB Ports	DB9 Serial Ports[2]	AC Input Connector
SmartPro Single-Phase Rack/Tower UPS Systems									
SMX500RT1U	500 VA/300 W	14,6 min.	-	1U	230 (220/230/240)	7 (C13) [1x1]	1	1	C14
SMX1000RT2U	1000 VA/700 W	21 min.	-	2U	230 (220/230/240)	6 (C13) [2x2]	1	1	C14
SMX1500XLRT2U	1500 VA/1350 W	13,6+ min.	A	2U	230 (220/230/240)	8 (C13) [2x2]	1	1	C14
SMX2200XLRT2U	2200 VA/1920 W	11,9+ min.	B	2U	230 (220/230/240)	8 (C13) [2x1]	1	1	C20
SMX3000XLRT2U	3000 VA/2250 W	11+ min.	B	2U	230 (220/230/240)	8 (C13), 1 (C19) [3x2]	1	1	C20
SMX3000XLRT2UA	3000 VA/2700 W	11,1+ min.	B	2U	230 (220/230/240)	8 (C13), 1 (C19) [2x1]	1	1	C20
SMX5000XLRT3U	5000 VA/3750 W	20+ min.	B	3U	230 (220/230/240)	8 (C13), 3 (C19)	1	1	Hardwire
Optional External Battery Packs									
A BP36V15-2U	36 V external battery pack and cable. Gray 2-pole connector. 2U rack/tower cabinet. Not expandable.								
A BP36V27-2US	36 V external battery pack and cable. Gray 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.								
A BP36V42-3U	36 V external battery pack and cable. Gray 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.								
B BP48V24-2U	48 V external battery pack and cable. Blue 2-pole connector. 2U rack/tower cabinet. Not expandable.								
B BP48V27-2US	48 V external battery pack and cable. Blue 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.								
B BP48V60RT-3U	48 V external battery pack and cable. Blue 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.								
Additional Accessories									
2-9USTAND	Base stand kit adapts rackmount cabinets for tower installation. Adjusts from 2U to 9U. Two kits adjust from 10U to 14U.								
2POSTRMKITHD	Heavy-duty 2-post rack mounting kit for 2U to 4U UPS cabinets. Order one kit per cabinet.								
ENVIROSENSE	Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors and controls contact-closure devices.								
RELAYIOCARD	Adds programmable contact-closure interface. Includes six outputs and one input.								
SNMPWEBCARD	Adds network interface to UPS systems for remote management via SNMP, Web, SSH or telnet, including free PowerAlert software.								

Certifications vary by model. All models include an accessory card slot. **(1)** Runtime varies with load, battery condition and other factors. **(2)** Select DB9 ports support contact-closure communications.
Model with expandable runtime. LCD Model with LCD.

Visit **www.tripplite.com/smartpro** for the latest specifications, including weights and dimensions.

SmartPro Line-Interactive Tower UPS Systems

Protect Every Application

SmartPro Tower UPS Systems are available in a wide variety of capacities to protect every size computer application from downtime, damage and data loss due to power problems. SmartPro Tower UPS Systems provide protection against all types of power problems, including brownouts, blackouts, surges and line noise. Line-interactive operation—also known as automatic voltage regulation (AVR)—keeps equipment working through low voltage (brownouts) and high voltage conditions indefinitely, without draining battery power. SmartPro Tower UPS Systems provide reliable battery power to keep computers up and running through short blackouts and allow enough time to save data and shut down during longer ones. In addition, all AC outlets stop damaging surges and filter disruptive line noise.

Control Individual Outlets

Prioritize the uptime of mission-critical loads during a power failure with switched outlet banks featured on select models. Use PowerAlert to reboot a locked-up computer by cycling the power on and off to select outlets on the UPS system. You can also program PowerAlert to shut down less important systems during an extended blackout, preserving battery runtime for critical equipment.

Manage Multiple Servers

Multiple built-in communication ports provide the ability to simultaneously manage multiple servers without the need for 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.*
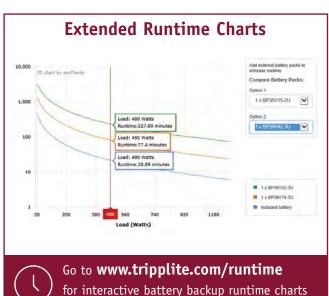
Additional PowerAlert features: pages 24-25.

▶ 750 to 3000 VA

▶ Internal Batteries and Extended Runtime Options

▶ Automatic Voltage Regulation (AVR)

Extend Runtime

Select models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70 000 (USD) per hour according to a survey on the cost of lost productivity for an hour of network downtime.*

  * IDC.

Extended Runtime Charts

Go to **www.tripplite.com/runtime** for interactive battery backup runtime charts for every UPS model.

A **Extended Runtime Capability**
Select models feature connectors that accept optional external battery packs for additional runtime. External batteries can be "hot-swapped". Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

B **Switched Outlet Banks**
Prioritize the uptime of mission-critical loads during a power failure. Select models feature switched outlet banks that you can control independently through PowerAlert software. Use PowerAlert to shut down less important systems first, preserving battery runtime for critical equipment.

C **Communication Ports**
Built-in USB and/or serial ports simultaneously provide shutdown commands and reporting on multiple servers.
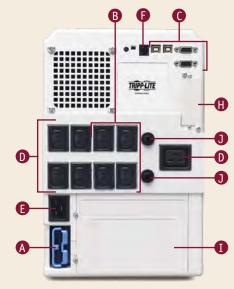
D **Flexible Output Options**
C13 and/or C19 outlets ensure maximum compatibility with equipment worldwide.

E **AC Input Connector**
C14 or C20 inlet (depending on model) connects to a user-supplied cord and plug compatible with local AC outlets.

SMARTINT3000VS Rear Panel

F **Emergency Power Off (EPO)**
A jack on select models allows remote emergency shutdown.

G **Tel/DSL/Ethernet Surge Protection (Select Models, Not Shown)**
Protect computers from damage on a single telephone or Ethernet line.

H **Accessory Card Slot**
Accepts optional internal SNMPWEBCARD or RELAYIOCARD. SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity or to control and monitor alarms. RELAYIOCARD provides programmable contact closure interface with 6 outputs and 1 input.

I **Battery Replacement**
Tripp Lite UPS batteries will protect equipment for several years with normal use. Most models feature a removable panel which allows for internal battery replacement*. Internal batteries can be "hot-swapped".

J **Short Circuit Protection**
Performance Conditions Displayed
Front panel LEDs alert you to a variety of performance conditions, including AC line present, automatic voltage regulation, UPS load level and replace battery.

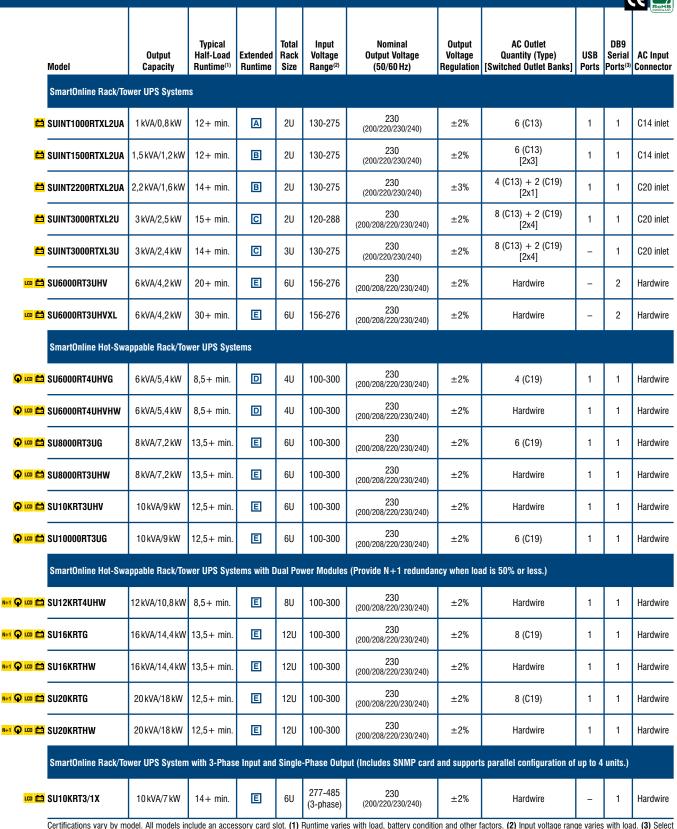** Tripp Lite offers a complete line of replacement battery cartridges (R.B.C.) at www.tripplite.com.*

Specifications

Model	Output Capacity	Typical Half-Load Runtime[1]	Extended Runtime	Nominal AC Voltage (50/60 Hz)	AC Outlet Quantity (Type) [Switched Outlet Banks]	USB Ports	DB9 Serial Ports[2]	SNMP Slot	Data Line Surge Protection	AC Input Connector
SmartPro Single-Phase Tower UPS Systems with Pure Sine Wave Output from Battery										
SMX750SLT	750 VA/500 W	15 min.	-	230 (220/230/240)	6 (C13)	1	1	Y	Tel/Network	C14
SMX1050SLT	1050 VA/650 W	20 min.	-	230 (220/230/240)	8 (C13)	1	1	Y	Tel/Network	C14
SMX1500SLT	1500 VA/900 W	20 min.	-	230 (220/230/240)	8 (C13)	1	1	Y	Tel/Network	C14
SmartPro Single-Phase Tower UPS Systems										
SMARTINT1500	1500 VA/940 W	20 min.	-	230 (220/230/240)	6 (C13)	-	2	N	-	C14
SMARTINT2200VS	2200 VA/1600 W	19 min.	-	230 (220/230/240)	8 (C13), 1 (C19) [3x2]	2	2	Y	-	C20
🔋 **SMARTINT3000VS**	3000 VA/2250 W	14+ min.	A	230 (220/230/240)	8 (C13), 1 (C19) [3x2]	2	2	Y	-	C20
Optional External Battery Packs										
A **BP48V24-2U**	48 V external battery pack and cable. Blue 2-pole connector. 2U rack/tower cabinet. Not expandable.									
A **BP48V27-2US**	48 V external battery pack and cable. Blue 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.									
A **BP48V60RT-3U**	48 V external battery pack and cable. Blue 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.									
Additional Accessories										
ENVIROSENSE	Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors and controls contact-closure devices.									
RELAYIOCARD	Adds programmable contact-closure interface. Includes six outputs and one input.									
SNMPWEBCARD	Adds network interface to UPS systems for remote management via SNMP, Web, SSH or telnet, including free PowerAlert software.									

Certifications vary by model. **(1)** Runtime varies with load, battery condition and other factors. **(2)** Select DB9 ports support contact-closure communications. 🔋 Model with expandable runtime.
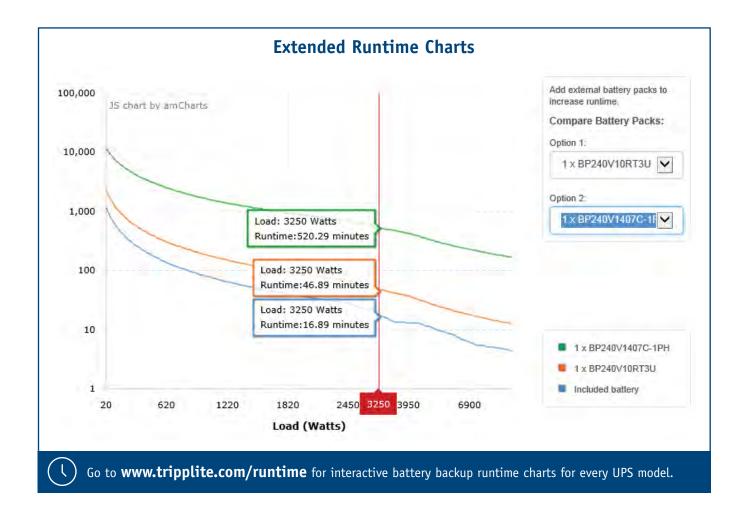
Visit **www.tripplite.com/smartpro** for the latest specifications, including weights and dimensions.

Specifications

Model	Output Capacity	Typical Half-Load Runtime[1]	Extended Runtime	Total Rack Size	Input Voltage Range[2]	Nominal Output Voltage (50/60 Hz)	Output Voltage Regulation	AC Outlet Quantity (Type) [Switched Outlet Banks]	USB Ports	DB9 Serial Ports[3]	AC Input Connector
SmartOnline Rack/Tower UPS Systems											
SUINT1000RTXL2UA	1 kVA/0,8 kW	12+ min.	A	2U	130-275	230 (200/220/230/240)	±2%	6 (C13)	1	1	C14 inlet
SUINT1500RTXL2UA	1,5 kVA/1,2 kW	12+ min.	B	2U	130-275	230 (200/220/230/240)	±2%	6 (C13) [2x3]	1	1	C14 inlet
SUINT2200RTXL2UA	2,2 kVA/1,6 kW	14+ min.	B	2U	130-275	230 (200/220/230/240)	±3%	4 (C13) + 2 (C19) [2x1]	1	1	C20 inlet
SUINT3000RTXL2U	3 kVA/2,5 kW	15+ min.	C	2U	120-288	230 (200/208/220/230/240)	±2%	8 (C13) + 2 (C19) [2x4]	1	1	C20 inlet
SUINT3000RTXL3U	3 kVA/2,4 kW	14+ min.	C	3U	130-275	230 (200/220/230/240)	±2%	8 (C13) + 2 (C19) [2x4]	–	1	C20 inlet
SU6000RT3UHV	6 kVA/4,2 kW	20+ min.	E	6U	156-276	230 (200/208/220/230/240)	±2%	Hardwire	–	2	Hardwire
SU6000RT3UHVXL	6 kVA/4,2 kW	30+ min.	E	6U	156-276	230 (200/208/220/230/240)	±2%	Hardwire	–	2	Hardwire
SmartOnline Hot-Swappable Rack/Tower UPS Systems											
SU6000RT4UHVG	6 kVA/5,4 kW	8,5+ min.	D	4U	100-300	230 (200/208/220/230/240)	±2%	4 (C19)	1	1	Hardwire
SU6000RT4UHVHW	6 kVA/5,4 kW	8,5+ min.	D	4U	100-300	230 (200/208/220/230/240)	±2%	Hardwire	1	1	Hardwire
SU8000RT3UG	8 kVA/7,2 kW	13,5+ min.	E	6U	100-300	230 (200/208/220/230/240)	±2%	6 (C19)	1	1	Hardwire
SU8000RT3UHW	8 kVA/7,2 kW	13,5+ min.	E	6U	100-300	230 (200/208/220/230/240)	±2%	Hardwire	1	1	Hardwire
SU10KRT3UHV	10 kVA/9 kW	12,5+ min.	E	6U	100-300	230 (200/208/220/230/240)	±2%	Hardwire	1	1	Hardwire
SU10000RT3UG	10 kVA/9 kW	12,5+ min.	E	6U	100-300	230 (200/208/220/230/240)	±2%	6 (C19)	1	1	Hardwire
SmartOnline Hot-Swappable Rack/Tower UPS Systems with Dual Power Modules (Provide N+1 redundancy when load is 50% or less.)											
SU12KRT4UHW	12 kVA/10,8 kW	8,5+ min.	E	8U	100-300	230 (200/208/220/230/240)	±2%	Hardwire	1	1	Hardwire
SU16KRTG	16 kVA/14,4 kW	13,5+ min.	E	12U	100-300	230 (200/208/220/230/240)	±2%	8 (C19)	1	1	Hardwire
SU16KRTHW	16 kVA/14,4 kW	13,5+ min.	E	12U	100-300	230 (200/208/220/230/240)	±2%	Hardwire	1	1	Hardwire
SU20KRTG	20 kVA/18 kW	12,5+ min.	E	12U	100-300	230 (200/208/220/230/240)	±2%	8 (C19)	1	1	Hardwire
SU20KRTHW	20 kVA/18 kW	12,5+ min.	E	12U	100-300	230 (200/208/220/230/240)	±2%	Hardwire	1	1	Hardwire
SmartOnline Rack/Tower UPS System with 3-Phase Input and Single-Phase Output (Includes SNMP card and supports parallel configuration of up to 4 units.)											
SU10KRT3/1X	10 kVA/7 kW	14+ min.	E	6U	277-485 (3-phase)	230 (200/220/230/240)	±2%	Hardwire	–	1	Hardwire

Certifications vary by model. All models include an accessory card slot. **(1)** Runtime varies with load, battery condition and other factors. **(2)** Input voltage range varies with load. **(3)** Select DB9 ports support contact-closure communications.

Model with expandable runtime. LCD Model with LCD. Model with hot-swappable power module(s). N+1 Model with built-in N+1 redundancy.

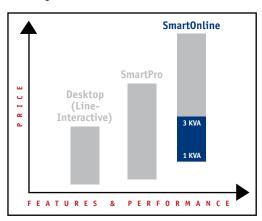Visit **www.tripplite.com/smartonline** for the latest specifications, including weights and dimensions.

Specifications

Model	Description
Optional External Battery Packs	
A BP24V15RT2U	24 V external battery pack and cable. Red and black 2-pole connector. 2U rack/tower cabinet. Not expandable.
A BP24V28-2U	24 V external battery pack and cable. Red and black 2-pole connector. 2U rack/tower cabinet. Not expandable.
A BP24V36-2US	24 V external battery pack and cable. Red and black 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.
A BP24V70-3U	24 V external battery pack and cable. Red and black 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.
B BP48V24-2U	48 V external battery pack and cable. Blue 2-pole connector. 2U rack/tower cabinet. Not expandable.
B BP48V27-2US	48 V external battery pack and cable. Blue 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.
B BP48V60RT-3U	48 V external battery pack and cable. Blue 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.
C BP72V15-2U	72 V external battery pack and cable. Black 3-pole connector. 2U rack/tower cabinet. Not expandable.
C BP72V18-2US	72 V external battery pack and cable. Black 3-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.
C BP72V28RT-3U	72 V external battery pack and cable. Black 3-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.
D BP192V12-3U	192 V external battery pack and cable. Black 3-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.
E BP240V10RT3U	240 V external battery pack and cable. Black 3-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.
Additional Accessories	
2-9USTAND	Base stand kit adapts UPS systems for tower installation. Adjusts from 2U to 9U. Two kits adjust from 10U to 14U. Included with select UPS models.
2POSTRMKITHD	Heavy-duty 2-post rack mounting kit for 2U to 4U UPS cabinets. Order one kit per cabinet.
ENVIROSENSE	Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors and controls contact-closure devices.
MODBUSCARD	Accessory card adds interface for MODBUS RTU industrial communications protocol, RS-422/485 and RS-232.
RELAYIOCARD	Accessory card adds programmable contact-closure interface. Includes six outputs and one input.
RELAYIOMINI	Miniature accessory card adds contact-closure port (DB9) to select UPS systems. Replaces USB port.
SNMPWEBCARD	Adds network interface to UPS systems for remote management via SNMP, Web, SSH or telnet, including free PowerAlert software.

Extended Runtime Charts

Go to **www.tripplite.com/runtime** for interactive battery backup runtime charts for every UPS model.

SmartOnline True On-Line Tower UPS Systems

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

SmartOnline 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 power: ±2% VAC.

SmartOnline 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 save data and shut down during longer ones. In addition, they stop damaging surges and filter disruptive line noise. All models ensure maximum availability with an automatic internal bypass which passes through utility power in the event of an internal fault or overload.

Manage Multiple Servers

Using PowerAlert software, simultaneously manage multiple servers—even if they are running different operating systems.* Intelligent communications allow you to check UPS status (including battery charge level and runtime remaining) and AC power status. You can use PowerAlert to reboot a locked-up server by cycling the power to select UPS outlets or shut down nonessential systems during a blackout, preserving runtime for critical equipment.

* Additional PowerAlert features: pages 24-25.

Save Electricity and Reduce Costs

SmartOnline UPS Systems are up to 97% efficient in economy mode, a potential increase of 10% or more versus comparable on-line UPS systems. Economy mode can make your data center significantly cooler, greener and more cost-effective.
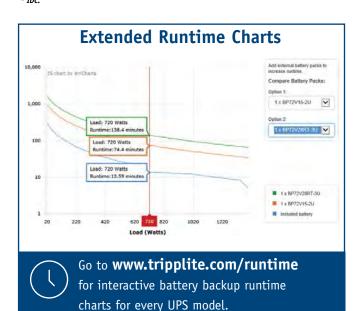
TRUE ON-LINE

▶ 1 000 to 3 000 VA

▶ Zero Transfer Time, Double Conversion

▶ Wide Input Voltage Range with Precision-Regulated Output

▶ Automatic Internal Bypass

▶ Internal Batteries and Extended Runtime Options

Extend Runtime

Select models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70 000 (USD) per hour according to a survey on the cost of lost productivity for an hour of network downtime.*

* IDC.

Extended Runtime Charts

Go to **www.tripplite.com/runtime** for interactive battery backup runtime charts for every UPS model.

A Extended Runtime Capability

Select models feature connectors that accept optional external battery packs for additional runtime. External batteries can be "hot-swapped". Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

B Flexible Output Options

C13 outlets ensure maximum compatibility with equipment worldwide.

C Accessory Card Slot

Accepts optional internal SNMPWEBCARD or RELAYIOCARD. SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity. RELAYIOCARD provides a programmable contact closure interface with 6 outputs and 1 input.

D Communication Port
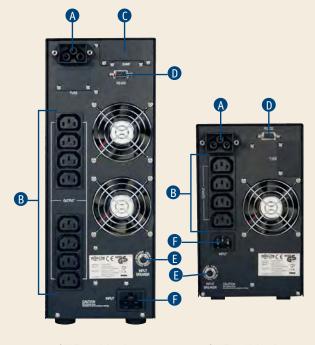
Built-in serial port provides shutdown commands and reporting.

E Short Circuit Protection

Breakers guard against short circuits and overloads.

F AC Input Connector

C14 or C20 inlet (depending on model) connects to a user-supplied cord and plug compatible with local AC outlets.

SUINT3000XL Rear Panel   *SUINT1000XL Rear Panel*

Display Critical Operational Conditions

SmartOnline Tower UPS Systems feature a front panel LCD or LED display 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.

Specifications

Model	Output Capacity	Typical Half-Load Runtime[1]	Extended Runtime	Input Voltage Range[2]	Nominal Output Voltage (50/60 Hz)	Output Voltage Regulation	AC Outlet Quantity (Type)	DB9 Serial Ports[3]	Accessory Card Slot	AC Input Connector
SmartOnline Tower UPS Systems										
SUINT1000XL	1 kVA/0,7 kW	14 min.	-	80-280	230 (220/230/240)	±2%	4 (C13)	1	N	C14 inlet
SUINT2000XL	2 kVA/1,4 kW	14+ min.	A	80-280	230 (220/230/240)	±2%	8 (C13)	1	Y	C20 inlet
SUINT3000XL	3 kVA/2,1 kW	14+ min.	A	80-280	230 (220/230/240)	±2%	8 (C13)	1	Y	C20 inlet
Optional External Battery Packs										
A BP72V15-2U	72 V external battery pack and cable. Black 3-pole connector. 2U rack/tower cabinet. Not expandable.									
A BP72V18-2US	72 V external battery pack and cable. Black 3-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.									
A BP72V28RT-3U	72 V external battery pack and cable. Black 3-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.									
Additional Accessories										
ENVIROSENSE	Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors and controls contact-closure devices.									
RELAYIOCARD	Adds programmable contact-closure interface. Includes six outputs and one input.									
SNMPWEBCARD	Adds network interface to UPS systems for remote management via SNMP, Web, SSH or telnet, including free PowerAlert software.									

Certifications vary by model. **(1)** Runtime varies with load, battery condition and other factors. **(2)** Input voltage range varies with load. **(3)** Select DB9 ports support contact-closure communications.
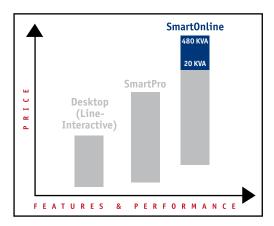
Model with expandable runtime.

Visit **www.tripplite.com/smartonline** for the latest specifications, including weights and dimensions.

SmartOnline Modular 3-Phase
True On-Line Tower UPS Systems

TRUE ON-LINE

▶ 20 to 120 kVA (Up to 480 kVA in Parallel)

▶ 3-Phase Hardwire (230/400V)

▶ N+1 Modular Architecture

▶ Parallel Capability with Patented DSP Control

▶ Low THDi for 1:1 Generator Sizing

▶ Zero Transfer Time, Double Conversion

▶ Advanced IGBT Rectifier and Inverter Technology with Power Factor Correction (PFC)

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

SmartOnline Modular 3-Phase 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 Modular 3-Phase UPS Systems automatically correct the widest range of incoming voltages of any models in their class. A wider voltage correction range saves battery power and decreases battery wear by up to 40%, reducing battery replacement costs. SmartOnline Modular 3-Phase models 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 or switch to generator backup during longer ones. In addition, all models stop damaging surges and filter disruptive line noise.

SmartOnline Modular 3-Phase UPS Systems are ideal for protecting critical equipment in computing, networking or telecommunications environments.

Save Installation Costs (1:1 Generator Sizing)

SmartOnline Modular 3-Phase UPS Systems include a generator-friendly design that lowers installation costs. The SmartOnline UPS System's high input power factor and Digital Signal Processor (DSP) technology create less than 4% input Total Harmonic Distortion (THDi), enabling a 1:1 sizing of the UPS System to a generator set. Generators are affected by the THDi that a UPS system passes back through its input into the overall power system. If the THDi is high, managers are forced to oversize generators in order to compensate. With the SmartOnline UPS System's low THDi, generators run cooler and last longer, allowing managers to save installation costs by installing a generator with a capacity equal to their equipment load (a 1:1 ratio). In addition, low THDi eliminates the need to oversize cables and breakers and eliminates nuisance breaker tripping and overheated transformers.

Save Operating Costs

SmartOnline Modular 3-Phase UPS Systems include advanced IGBT inverter technology that provides the highest efficiency (up to 96% in economy mode) of any UPS system in their class. High efficiency operation lowers UPS system operating and related cooling costs and lengthens UPS system service life. Since inverter components are smaller, SmartOnline models also save significant facility floor space compared to legacy systems.

Include Additional Availability Features

A manual bypass breaker as well as an automatic bypass function included on SmartOnline Modular 3-Phase UPS Systems ensure the constant availability of connected equipment by safely passing through AC power if the UPS system requires maintenance. In addition, a battery cold-start function (initiated through the control panel) allows you to restart your UPS system and connected equipment during an extended blackout for periodic system access or retrieval of vital data.

Provide Optional Extended Service / Support Programs

Start-Up and On-Site Service Programs are recommended and available separately to enhance the reliability of the installation. Preventative maintenance services are also available for added peace of mind.

Provide Maximum System Availability
with N+1 Modular Architecture and Parallel Capability

N+1 Modular Architecture

Maximum Availability with N+1 Redundancy

- Multiple, Redundant Power Modules
- Dual, Redundant Controller Power Supplies

SmartOnline Modular 3-Phase UPS Systems 40 kVA and above include multiple, self-contained power modules that provide fail-safe redundancy. In an N+1 configuration, a power module can be hot-swapped (with the load powered) if maintenance is required.

20 kVA Redundant Power Module

Modular Architecture Provides N+1 (and Greater) Redundancy

UPS Capacity	Connected Load ("N")					
	20 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA
20 kVA	N	-	-	-	-	-
40 kVA	N+1	N	-	-	-	-
60 kVA	N+2	N+1	N	-	-	-
80 kVA	N+3	N+2	N+1	N	-	-
100 kVA	N+4	N+3	N+2	N+1	N	-
120 kVA	N+5	N+4	N+3	N+2	N+1	N

N+2

20 kVA Power Module
20 kVA Power Module
20 kVA Power Module
20 kVA Power Module

40 kVA Redundancy
40 kVA Load

External Battery Cabinet — 80 kVA UPS System

N+1

20 kVA Power Module
20 kVA Power Module
20 kVA Power Module

20 kVA Redundancy
60 kVA Load

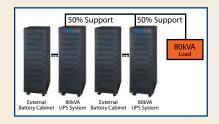External Battery Cabinet — 80 kVA UPS System

Parallel Capability

Provides Redundancy

Connect two or more SmartOnline UPS Systems in parallel to provide redundancy for the power distribution system. If one UPS is removed or taken offline for maintenance, the second UPS supports the equipment load automatically— without requiring additional programming.
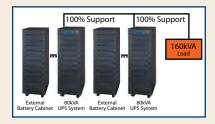Patented dual DSP technology provides state-of-the-art parallel control.

50% Support   50% Support

80 kVA Load

External Battery Cabinet   80 kVA UPS System   External Battery Cabinet   80 kVA UPS System

Increases Capacity

Connect SmartOnline Modular 3-Phase UPS Systems in parallel to increase the capacity offered to a single equipment load.

Note: UPS systems connected in parallel must have the same capacity and voltage. Parallel connection also requires a parallel tie cabinet.

100% Support   100% Support

160 kVA Load

External Battery Cabinet   80 kVA UPS System   External Battery Cabinet   80 kVA UPS System

UPS System Power Module Cabinet

The UPS System's power module cabinet delivers true on-line, pure sine wave power to connected equipment.

SU80KX2 Rear Panel

Extended Runtime Capability
(Rear Panel Access, Not Shown)

20 kVA and 40 kVA models include internal batteries. Other models require a stand-alone, hardwire external battery cabinet (bundled or available separately from Tripp Lite) to provide battery backup. All models accept connection of additional external battery cabinets for extended runtime. Contact Tripp Lite for a runtime solution customized for your application.

Advanced Communications Capabilities

A RS-232 Interface

Provides shutdown commands and reporting on a single server.

B Accessory Card Slot

Accepts optional internal SNMPWEBCARD. SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity or to control and monitor alarms and security systems.

C Parallel Interface

Allows multiple UPS systems to support a single equipment load.

D Dry-Contact Interface
(Including "EPO" Emergency Power Off Function)

Allows remote emergency shutdown of the UPS system. Also allows the UPS system to monitor a variety of input/output conditions, including external battery module conditions.

Hardwire, 3-Phase (4-Wire, Wye) Output
(Rear Panel Access, Not Shown)

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

Hardwire, 3-Phase (4-Wire, Wye) Input (Rear Panel, Not Shown)

Connects the power module directly to the 3-Phase utility power source.

E Cooling Fans

Keep UPS system at optimal operating temperature, prolonging service life.

F Rolling Casters and Levelers

Provide added mobility and stability during installation.

G Multiple, Redundant Hot-Swappable 20 kVA Power Modules

All SmartOnline Modular 3-Phase UPS Systems include multiple, self-contained power modules that provide the ultimate level of fail-safe redundancy. In an N+1 configuration, a power module can be hot-swapped (with the load powered) if maintenance is required.

20kVA Redundant Power Module

H Bypass Operation

A manual bypass breaker as well as an automatic static bypass ensure maximum availability of connected equipment by safely passing through AC power if the UPS system requires maintenance.
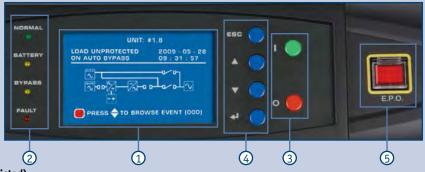
I Short Circuit Protection

Breakers safeguard your equipment, the UPS system and your electrical infrastructure against potential damage due to input or output short circuits and system overloads.

Display and Control Panel

This interface indicates a variety of UPS operational modes and conditions, allowing you to react more rapidly to an alert before your systems are put at risk.

① **LCD Screen:** lets you access more precise information than provided by LEDs alone. Text and intuitive operational block diagrams communicate a variety of fault/warning and UPS system operational conditions.

Real-Time Event Log Screen (Up to 500 Events Listed)

Event log helps you decisively react to changing conditions by providing a broader context of UPS operation.
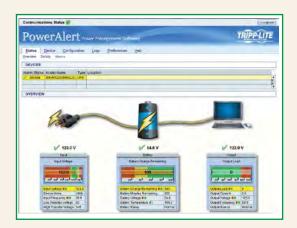
Dynamic Battery Management Screen

Use the LCD display and control buttons to select optional settings for charge current and battery equalization—lengthening battery service life. Also use the control panel to "cold start" the UPS system.

② **LED Set:** indicates normal on-line operation, on-battery operation, bypass operation or an input fault condition.

③ **Inverter On/Off Buttons**

④ **LCD Screen Control Buttons**

⑤ **"EPO" (Emergency Power Off) Button:** onsite safety measure (covered to protect against accidental contact) completely shuts down the UPS.

Specifications

Model	Output Capacity	Typical Half-Load Runtime[1]	Extended Runtime	Input Voltage Range[2]	Nominal Input/Output Voltage (3Ø, 4-Wire+Ground, Wye, 50/60 Hz)	Output Voltage Regulation	Communications	AC Input/ Output Connection
SmartOnline Modular 3-Phase Tower UPS Systems								
SU20KX	20 kVA/16 kW	13+ min.	A B C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±2%	DB9 Serial, Contact-Closure, Accessory Card Slot	Hardwire
SU40KX	40 kVA/32 kW	13+ min.	B C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±2%		Hardwire
SU60KX	60 kVA/48 kW	Requires B or C	B C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±2%		Hardwire
SU60KX/26B	60 kVA/48 kW	14+ min.	B	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±2%		Hardwire
SU80KX	80 kVA/64 kW	Requires B or C	B C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±2%		Hardwire
SU80KX/40C	80 kVA/64 kW	9,6+ min.	B	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±2%		Hardwire
SmartOnline KX2 Modular 3-Phase Tower UPS Systems								
SU80KX2	80 kVA/64 kW[3]	Requires C	C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±1%	DB9 Serial, Contact-Closure, Accessory Card Slot	Hardwire
SU100KX2	100 kVA/80 kW[3]	Requires C	C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±1%		Hardwire
SU120KX2	120 kVA/96 kW	Requires C	C	120-276/208-477	230/400 (220/380, 230/400, 240/415)	±1%		Hardwire
Internal Battery Packs and External Battery Cabinets								
A SURBC2030	240 VDC replacement internal battery pack for SU20KX or SU40KX. Can also extend SU20KX runtime.							
B BP480V26B	±240 VDC hardwire external battery cabinet. Multiple cabinets can be daisy-chained. Design matches UPS cabinet.							
B BP480V40C	±240 VDC hardwire external battery cabinet. Multiple cabinets can be daisy-chained. Design matches UPS cabinet.							
C BP480V200	±240 VDC hardwire external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.							
C BP480V300	±240 VDC hardwire external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.							
C BP480V400	±240 VDC hardwire external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.							
C BP480V500	±240 VDC hardwire external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.							
Additional Accessories								
ENVIROSENSE	Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors and controls contact-closure devices.							
MODBUSCARD	Adds interface for MODBUS RTU industrial communications protocol, RS-422/485 and RS-232.							
SNMPWEBCARD	Adds network interface to UPS systems for remote management via SNMP, Web, SSH or telnet, including free PowerAlert software.							
SU20KSPM	20 kVA hot-swappable replacement/spare/expansion power module for SU80KX2, SU100KX2 or SU120KX2.							
SU20KMBPKX	3-breaker maintenance bypass panel for SU20KX. Wall-mount. Kirk Key interlock system prevents operator errors.							
SU40KMBPKX	3-breaker maintenance bypass panel for SU40KX. Wall-mount. Kirk Key interlock system prevents operator errors.							
SU60KMBPKX	3-breaker maintenance bypass panel for SU60KX. Wall-mount. Kirk Key interlock system prevents operator errors.							
SU80KMBPKX	3-breaker maintenance bypass panel for SU80KX. Wall-mount. Kirk Key interlock system prevents operator errors.							

Certifications vary by model. **(1)** Runtime varies with load, battery condition and other factors. SU20KX and SU40KX have internal batteries. **(2)** Input voltage range varies with load. **(3)** Expandable up to 120 kVA by adding SU20KSPM power module(s).

Model with expandable runtime.　Model with LCD.　Model with hot-swappable power module(s).　N+1 Model with built-in N+1 redundancy.

Visit **www.tripplite.com/3phase** for the latest specifications, including weights and dimensions.

PowerAlert Software

PowerAlert software monitors and controls power for hundreds of UPS systems, PDUs or cooling systems and the equipment they support. Since PowerAlert is a FREE, software-only solution, it saves network managers significant costs compared to competitive solutions that require additional hardware or license purchases.* Using JAVA® and SNMP standards, PowerAlert simplifies power management for every network—from a single server to a global enterprise. PowerAlert allows managers to centrally monitor every UPS, PDU and cooling system on their network. In addition, PowerAlert allows users to set parameters for graceful, automatic file saves and system shut down in the event of an extended blackout.

* FREE PowerAlert CD included with select models. FREE download available at www.tripplite.com/pa.

Reduces Deployment Time

- **Mass Configuration of Devices**
  PowerAlert saves time and money by allowing managers to mass configure multiple remote device settings from a single location.

- **Device Auto-Discovery**
  Managers can set PowerAlert to auto-discover devices in specific network segments or IP address ranges.

Reduces Troubleshooting Time

- **Alarm Log**
  PowerAlert speeds up alarm resolution by pooling all network alarms into a single, sortable easy-to-read list. Alarm entries feature intuitive color coding, including white (normal), yellow (warning) and red (critical).

- **"Recommended Action" Messaging**
  PowerAlert takes the guesswork out of how to respond to alarms. When managers select a device from the Network Management Screen, the device's real-time power status is displayed along with the alarm's "cause" and recommended "response."

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▶ **Monitors and Controls Hundreds of UPS Systems, PDUs or Cooling Systems, plus ENVIROSENSE® Modules**

▶ **Software-Only Solution Requires No Additional Hardware or Licenses**

▶ **Available FREE—Included CD or Download**

Simplifies Network Power Management

- **SNMP Control**
  Any UPS connected to PowerAlert via a USB or serial cable can now be monitored via SNMP—without an internal SNMPWEBCARD and its additional IP address. PowerAlert's built-in SNMP agent can make even a basic desktop UPS a monitored device on your network, visible to PowerAlert or any third-party network management system.

- **Alarm Notification**
  PowerAlert keeps managers continuously apprised of conditions through emails and SNMP traps, enabling them to proactively manage problems before they affect productivity.

- **Individual Outlet Control**
  PowerAlert allows managers to reboot locked devices or preserve runtime for critical equipment by remotely controlling the outlet power of UPS and power distribution units that offer outlet control capability. Select UPS and PDU devices can also be configured to perform custom, sequential startup and shutdown sequences.

- **Redundant UPS System Management**
  PowerAlert is smart enough to manage multiple UPS systems connected to a single load. For example, when two UPS systems are connected to support two power supplies on a server, PowerAlert is typically configured to gracefully shut down the server only after battery power is exhausted on both UPS systems.
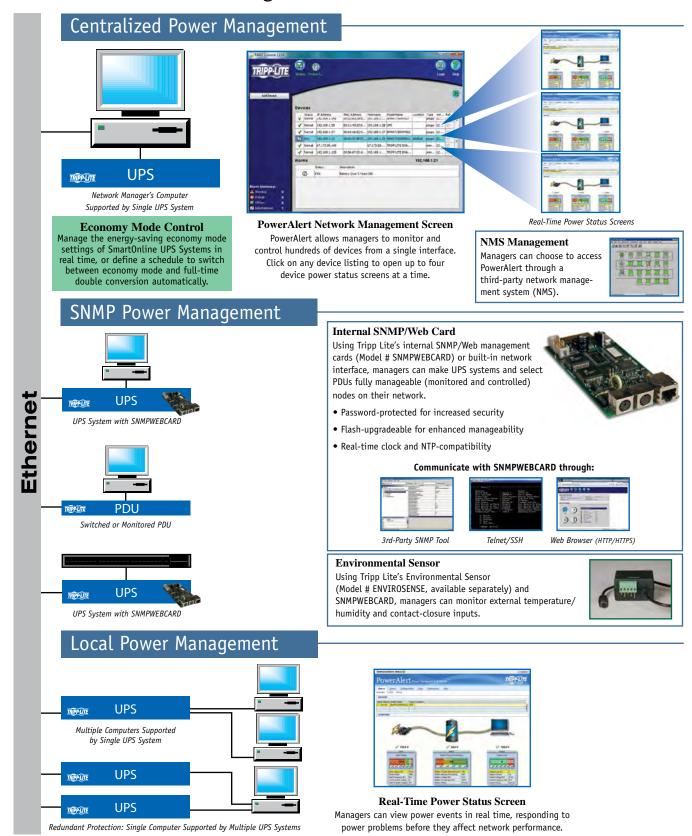
- **Network Shutdown Commands**
  When a UPS communicates with PowerAlert software or via internal SNMPWEBCARD, other computers on the network may also be dependent on the condition of the UPS. Any networked computers with PowerAlert Network Shutdown Agent can detect an outage and automatically shut down before UPS battery power is exhausted. PowerAlert can also execute custom scripts upon any alarm condition.

- **Convenient Web-Browser Access**
  When the internal SNMPWEBCARD is used, network managers can access its management interface from any networked computer via a secure, password-protected browser session (HTTP or HTTPS).

PowerAlert's Power-Management Architecture

Centralized Power Management

UPS

*Network Manager's Computer
Supported by Single UPS System*

Economy Mode Control
Manage the energy-saving economy mode settings of SmartOnline UPS Systems in real time, or define a schedule to switch between economy mode and full-time double conversion automatically.

PowerAlert Network Management Screen
PowerAlert allows managers to monitor and control hundreds of devices from a single interface. Click on any device listing to open up to four device power status screens at a time.

Real-Time Power Status Screens

NMS Management
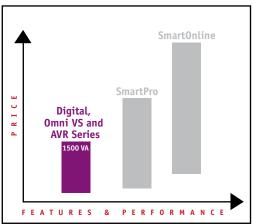Managers can choose to access PowerAlert through a third-party network management system (NMS).

SNMP Power Management

UPS

UPS System with SNMPWEBCARD

PDU

Switched or Monitored PDU

UPS

UPS System with SNMPWEBCARD

Internal SNMP/Web Card
Using Tripp Lite's internal SNMP/Web management cards (Model # SNMPWEBCARD) or built-in network interface, managers can make UPS systems and select PDUs fully manageable (monitored and controlled) nodes on their network.

- Password-protected for increased security
- Flash-upgradeable for enhanced manageability
- Real-time clock and NTP-compatibility

Communicate with SNMPWEBCARD through:

3rd-Party SNMP Tool   *Telnet/SSH*   *Web Browser (HTTP/HTTPS)*

Environmental Sensor
Using Tripp Lite's Environmental Sensor (Model # ENVIROSENSE, available separately) and SNMPWEBCARD, managers can monitor external temperature/humidity and contact-closure inputs.

Local Power Management

UPS

Multiple Computers Supported by Single UPS System

UPS

UPS

Redundant Protection: Single Computer Supported by Multiple UPS Systems

Real-Time Power Status Screen
Managers can view power events in real time, responding to power problems before they affect network performance.

Digital, OmniVS and AVR Series

Line-Interactive Tower and Low-Profile UPS Systems

- ▶ 350 to 1 500 VA
- ▶ Automatic Voltage Regulation (AVR)
- ▶ Data Line Surge Protection Options
- ▶ Extended Runtime Options

Protect Every Application

Digital, OmniVS and AVR Series UPS Systems are available in a wide variety of capacities to protect every size computer application from downtime, damage and data loss due to power problems. These UPS systems provide protection against power problems, including brownouts, blackouts, surges and line noise. Line-interactive operation—also known as automatic voltage regulation (AVR)—keeps equipment working through low voltage (brownouts) indefinitely, without draining battery power. Digital, OmniVS and AVR Series UPS Systems provide reliable battery power to keep computers up and running through short blackouts and allow enough time to safely shut down during longer ones.

Digital UPS Systems include an LCD status screen that shows power conditions in real time. Monitor input voltage, battery charge level, load status and other power conditions at a glance.

Go to **www.tripplite.com/runtime** for interactive battery backup runtime charts for every UPS model.

Protect Systems On Telephone, Ethernet or Coaxial Lines

Select UPS systems include surge-protected jacks that safeguard equipment against damaging surges traveling on the telephone, Ethernet or coaxial lines. In addition to protecting equipment against surges, reliable battery backup power maintains Internet, network or coaxial connections during brief blackouts.

Automatically Shut Down Unattended Systems

All models feature at least one built-in communication port. Use with included cabling and PowerAlert software (available as a FREE download) to automatically save open files and shut down unattended equipment during an extended blackout. PowerAlert software waits for a user-specified length of time (during which on-screen notifications are displayed) before saving data and shutting down connected equipment.

AVRX750U

AVRX750UD

OMNIVSINT1500XL Rear Panel

SMX1500LCDT Rear Panel

SMX1000LCD Rear Panel

A Data Line Surge Protection
Protect telephone, Ethernet or coaxial lines with surge-protected jacks on select models.

B Communication Ports
USB and/or serial ports connect all models to a computer. Use with PowerAlert software (FREE download) to automatically save open files and shut down equipment during extended blackouts.

C UPS Outlets (All Models)
Provide battery backup and surge/noise protection for computers and monitors.

D Surge-Only Outlets (Select Models)
Provide surge/noise protection without battery backup for printers and other peripherals.

E Extended Runtime Capability

F Operating Conditions Displayed
LEDs or a front-panel LCD screen alert you to operating status and power problems.

G AC Input Connector
C14 inlet connects to a user-supplied cord and plug compatible with local AC outlets. (Select models have a fixed cord and CEE 7/7 plug instead.)

Specifications

Model	Output Capacity	Typical Half-Load Runtime(1)	Extended Runtime	Nominal AC Voltage (50/60 Hz)	AC Outlet Quantity (Type)(2) [UPS/Surge-Only]	USB Ports	DB9 Serial Ports	Data Line Surge Protection	Form Factor	AC Input Connector(2)
AVR Series UPS Systems										
AVRX550U	550 VA/300 W	8 min.	-	230 (220/230/240)	6 (C13) [3/3]	1	-	Tel/DSL	Low-Profile	C14
AVRX550UD	550 VA/300 W	9,7 min.	-	230 (220/230/240)	8 (Schuko) [4/4]	1	-	Tel/Network	Low-Profile	CEE 7/7
AVRX750U	750 VA/450 W	10 min.	-	230 (220/230/240)	6 (C13)	1	-	Tel/DSL	Low-Profile	C14
AVRX750UD	750 VA/450 W	11,7 min.	-	230 (220/230/240)	8 (Schuko) [4/4]	1	-	Tel/Network	Low-Profile	CEE 7/7
OmniVS Series UPS Systems										
OMNIVSINT800	800 VA/475 W	11,5 min.	-	230 (220/230/240)	4 (C13)	1	-	Tel/Network	Tower	C14
OMNIVSINT1000	1000 VA/500 W	12 min.	-	230 (220/230/240)	6 (C13)	1	-	Tel/Network	Tower	C14
🔋 OMNIVSINT1500XL	1500 VA/940 W	13+ min.	A	230 (220/230/240)	8 (C13)	1	-	Tel/Network	Tower	C14
Digital UPS Systems with LCD Status Screen										
LCD SMX1000LCD	1000 VA/500 W	11 min.	-	230 (220/230/240)	6 (C13) [3/3]	1	-	Tel/DSL	Tower	C14
LCD SMX1500LCD	1500 VA/900 W	12 min.	-	230 (220/230/240)	8 (C13)	1	1	Tel/Net + Coax	2U/Tower	C14
LCD SMX1500LCDT	1500 VA/900 W	10 min.	-	230 (220/230/240)	8 (C13) [6/2]	1	-	Tel/Network	Tower	C14
Hospital/Medical UPS Systems with Full Isolation and IEC 60101-1 Compliance										
OMNIX350HG	350 VA/225 W	37 min.	-	230 (220/230/240)	6 (C13)	1	-	Tel/DSL	Tower	C14
SMX700HG	700 VA/450 W	36 min.	-	230 (220/230/240)	6 (C13)	1	1	-	Tower	C14
🔋 SMX1200XLHG	1000 VA/750 W	27,5+ min.	B	230 (220/230/240)	6 (C13)	1	1	-	Tower	C14
Optional External Battery Packs and Accessories										
A BP24V15RT2U	24 V external battery pack and cable. Red and black 2-pole connector. 2U rack/tower cabinet. Not expandable.									
A BP24V28-2U	24 V external battery pack and cable. Red and black 2-pole connector. 2U rack/tower cabinet. Not expandable.									
A BP24V36-2US	24 V external battery pack and cable. Red and black 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.									
A BP24V70-3U	24 V external battery pack and cable. Red and black 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.									
B BP36V15-2U	36 V external battery pack and cable. Gray 2-pole connector. 2U rack/tower cabinet. Not expandable.									
B BP36V27-2US	36 V external battery pack and cable. Gray 2-pole connector. 2U rack/tower cabinet. Expandable via daisy chain.									
B BP36V42-3U	36 V external battery pack and cable. Gray 2-pole connector. 3U rack/tower cabinet. Expandable via daisy chain.									
UNIPLUGINT	Adapter converts a C13 outlet to a Wonpro universal outlet that is physically compatible with most household plugs worldwide.									

Certifications vary by model. **(1)** Runtime varies with load, battery condition and other factors. **(2)** Schuko = CEE 7/4, Type F; CEE 7/7 = Hybrid Type E/F.

🔋 Model with expandable runtime. LCD Model with LCD.

Visit **www.tripplite.com/avr** for the latest specifications, including weights and dimensions.

SMARTONLINE® 3-PHASE UPS SYSTEMS

- 380Y/220V, 400Y/230V or 415Y/240V

The Most Reliable and Cost-Effective Power Solutions for Your Data Center

SUPPORT UP TO 480 KVA IN PARALLEL

SMARTONLINE KX2 SERIES (80-120 KVA)

IDEAL OUTPUT POWER
PROTECTS CRITICAL SYSTEMS

MODULAR ARCHITECTURE
ELIMINATES DOWNTIME

SCALABLE DESIGN
GROWS WITH YOUR DATA CENTER

1-TO-1 GENERATOR SIZING
LOWERS INSTALLATION COSTS

EXTREME EFFICIENCY
LOWERS OPERATING COSTS

TRIPP·LITE

DATA CENTER SOLUTIONS

SMARTONLINE KX2 SERIES UPS SYSTEMS

Extremely efficient protection for your most important equipment

IDEAL OUTPUT POWER
PROTECTS CRITICAL SYSTEMS

On-line, double conversion operation continuously delivers precision-regulated, pure sine wave output, isolating your critical systems from damaging and disruptive power problems.

MODULAR ARCHITECTURE
ELIMINATES DOWNTIME

Internal N+1 power module redundancy, parallel capability (up to four units) and fault-tolerant bypass features keep your critical systems highly available and productive around the clock.

1-TO-1 GENERATOR SIZING
LOWERS INSTALLATION COSTS

An advanced IGBT rectifier produces <4% THDi (input Total Harmonic Distortion), eliminating costly over-sizing requirements for generators, breakers and cables.

SCALABLE DESIGN
GROWS WITH YOUR DATA CENTER

Models with less than 120 kVA capacity can be expanded up to 120 kVA as infrastructure grows and more equipment is added.

EXTREME EFFICIENCY
LOWERS OPERATING COSTS

Efficiency up to 97% significantly lowers power and cooling costs compared to multiple smaller units or legacy high-capacity units.

SMARTONLINE KX2 SERIES UPS SYSTEMS

IDEAL OUTPUT POWER

SmartOnline KX2 Series UPS Systems isolate your critical equipment from power problems, including surges, line noise, harmonic distortion, electrical impulses, frequency variations, brownouts, overvoltages and blackouts. True on-line operation continually transforms AC input power into filtered DC power, then resynthesizes it into precision-regulated AC output with a pure sine wave. Strong overload capacity supports up to 150% output for up to 60 seconds. Reliable backup power with zero transfer time to battery keeps equipment operating safely through shorter power failures and allows time to shut down or switch to generator power during longer outages. Rapid recharging restores battery charge levels in as little as two hours.

MODULAR ARCHITECTURE

Intelligent, independent 20 kVA power modules provide internal redundancy. When the UPS is configured for N+1 redundancy, convenient hot-swap power modules can be replaced without powering down the connected load. In the event of a power module fault, the load is automatically distributed among the remaining modules. Because load redistribution happens without interrupting critical systems, mean time to recovery is zero—far superior to legacy UPS systems. In addition, redundant control circuits eliminate a single point of failure commonly found in less-reliable UPS designs. Power module installation is simple—each module is completely self-contained and can be installed or removed in minutes using nothing but a screwdriver.

If service or repair requires UPS shutdown, all models include a manual bypass breaker and automatic bypass function that maintain system availability by passing through AC power until the UPS system returns to service.

SCALABLE DESIGN

UPS systems in the KX2 Series with less than 120 kVA capacity include empty slots to accommodate more 20 kVA power modules. All systems can be upgraded to 120 kVA load capacity, or six 20 kVA power modules. This scalable design allows for capacity to be added slowly as the needs of your data center grow, allowing more flexibility when selecting a UPS, saving on up-front costs and facilitating infrastructure planning.

PARALLEL FEATURES

Increase fault tolerance or quadruple output capacity by connecting up to four SmartOnline KX2 Series UPS Systems in parallel. If one UPS system is taken offline for maintenance, the other UPS systems automatically compensate to support the equipment load—without requiring additional programming.

SmartOnline KX2 Series UPS Systems ship ready for parallel operation. Patented dual-DSP technology provides optimal synchronization of power sources.

MODULAR ARCHITECTURE INTERNAL N+1 REDUNDANCY

| 20 kVA Power Module |
| 20 kVA Power Module |
| 20 kVA Power Module |
| 20 kVA Power Module |
| 20 kVA Power Module |
| 20 kVA Power Module |

20 kVA Redundancy

100 kVA Load

In an N+1 configuration, the supported load is at least 20 kVA less than the maximum output capacity of the UPS system. For example, a 120 kVA UPS is configured for N+1 redundancy when the connected load is 100 kVA or less.

External Battery Cabinet   120 kVA UPS System

SCALABLE DESIGN GROWS WITH YOUR DATA CENTER

| 20 kVA Power Module |
| 20 kVA Power Module |
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| 20 kVA Power Module |
| 20 kVA Power Module |

KX2 models with less than 120 kVA capacity can be expanded up to 120 kVA as infrastructure grows and more equipment is added.

80 kVA UPS System   120 kVA UPS System

PARALLEL FOR N+1 REDUNDANCY

120 kVA UPS System   120 kVA UPS System   120 kVA UPS System   120 kVA UPS System

360 kVA Load

Four 120 kVA SmartOnline KX2 Series UPS Systems can provide redundant backup power for a 360 kVA load.

PARALLEL TO MAXIMIZE CAPACITY

120 kVA UPS System   120 kVA UPS System   120 kVA UPS System   120 kVA UPS System

480 kVA Load

Four 120 kVA SmartOnline KX2 Series UPS Systems can provide backup power for a 480 kVA load.