

Save Operating Costs

SmartOnline Modular 3-Phase UPS Systems include advanced IGBT inverter technology that provides the highest efficiency of any UPS system in its 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 Extended Service and Support

Tripp Lite provides technical support through every stage of the power protection process: application evaluation, UPS sizing, installation and long-term operation. For more comprehensive coverage, a variety of extended warranties and on-site service plans are available through local Tripp Lite partners. Contact Tripp Lite for details.

Provide 100% System Availability

with N+1 Modular Architecture & 1+1 Parallel Capability

N+1 Modular Architecture (SU40KX, SU60KX & SU80KX Models Only)

100% Availability with N+1 Redundancy

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

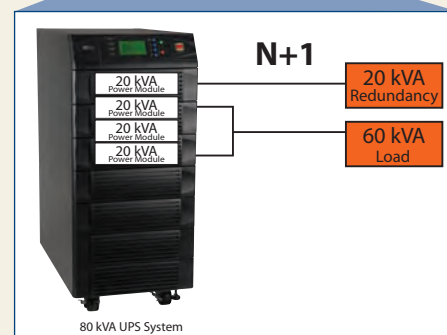
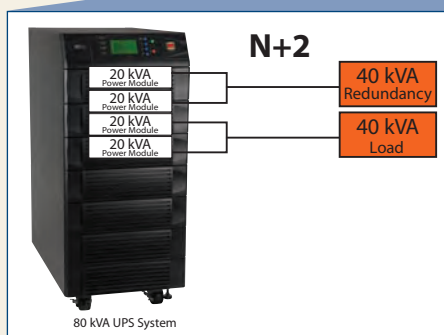
SU40KX, SU60KX and SU80KX models include multiple, self-contained power modules that provide the ultimate level of fail-safe redundancy. In an N+1 configuration, one or more power modules can be hot-swapped (with the load powered) if maintenance is required. In addition, the UPS system includes dual AC inputs (mains and reserve) to increase system availability.



20 kVA Redundant Power Module

Modular Architecture Provides N+1 (or Greater) Redundancy

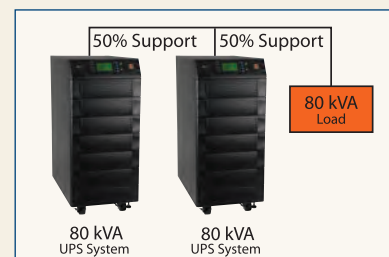
Model	Equipment Load ("N")			
	20 kVA	40 kVA	60 kVA	80 kVA
SU40KX	N+1	N		
SU60KX	N+2	N+1	N	
SU80KX	N+3	N+2	N+1	N



1+1 Parallel Capability

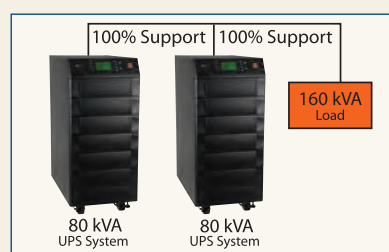
Provides Redundancy

Connect two SmartOnline UPS Systems in parallel (1+1) to provide redundancy that "hardens" 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 like standard legacy systems. The SmartOnline UPS System's dual input connections provide an additional level of fail-safe redundancy by allowing each UPS system to be powered by two separate, redundant utility sources.



Increases Capacity

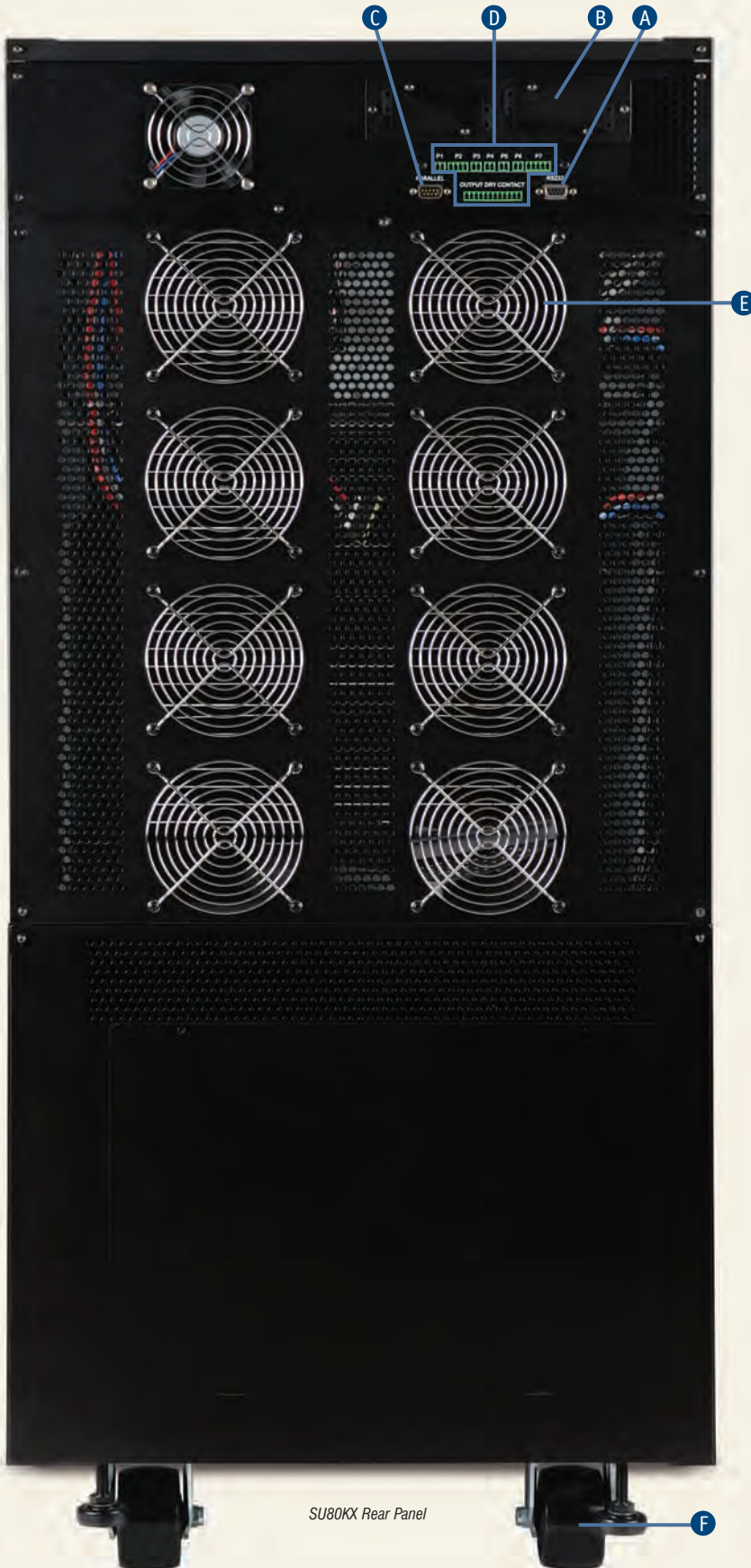
Connect two SmartOnline Modular 3-Phase UPS Systems in parallel to double the capacity offered to a single equipment load.



Note: UPS systems connected in parallel must have the same capacity.

UPS System Power Module Cabinet

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



SU80KX Rear Panel

Extended Runtime Capability (rear panel access, not shown)



SU20KX and SU40KX models include internal batteries. SU60KX and SU80KX models require a stand-alone, hardwired external battery module (available separately from Tripp Lite) to provide battery backup support. All models accept connection of additional external battery modules 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 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.

C 1+1 Parallel Interface

Allows two 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 access, 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 Heavy-Duty, Wide Casters & Levelers

Provide added mobility and stability during installation.

G Multiple, Redundant Hot-Swappable 20 kVA Power Modules

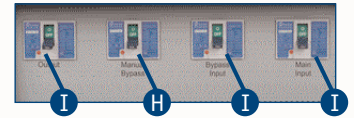
SU40KX, SU60KX and SU80KX models include multiple, self-contained power modules that provide the ultimate level of fail-safe redundancy. In an N+1 configuration, one or more power modules can be hot-swapped (with the load powered) if maintenance is required. The SU20KX model includes a single hot-swappable 20 kVA power module.



20 kVA Redundant Power Module

H Bypass Operation

A manual bypass breaker as well as an automatic static bypass ensure 100% 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 & 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 Display:** 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 managers decisively react to changing conditions by providing a broader context of UPS operation.

Dynamic Battery Management Screen

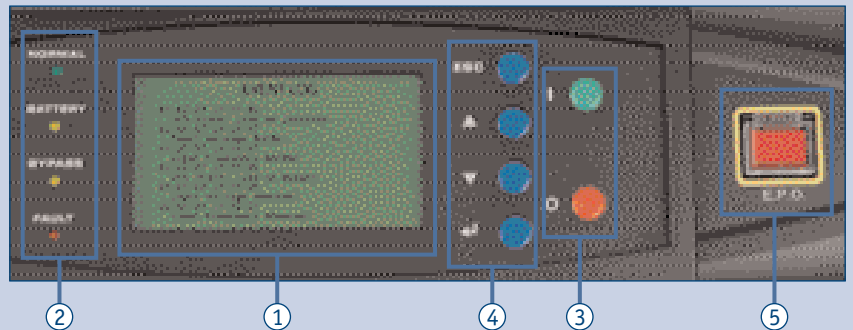
Use the LCD display and control buttons to select optional settings for charge current and battery equalization—lengthening battery service life. Also use the control panel to "cold start" the UPS system.

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 Display Control Buttons**

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



Specifications



Model	Output Capacity (VA/Watts)	Backup Time (Typical Minutes) Half/ Full Load ^(A)	Included Internal Battery Packs (Quantity)	External Battery Modules (Required for SU60KX & SU80KX)	Input/Output Voltage (Hardwired)	Input Voltage Range (Frequency 50/60 Hz)	"Smart" RS-232 (DB9)	Parallel Interface (DB9)	Dry Contact Interface	SNMP/Web Accessory Slot ^(B)
SU20KX	20,000/16,000	13/5.5+	1	A B	220/380, 230/400 or 240/415, 3ø, 4-wire (plus ground), wye	173-276/300-477	1	1	1	1
SU40KX	40,000/32,000	13/5.5+	2	A B	220/380, 230/400 or 240/415, 3ø, 4-wire (plus ground), wye	173-276/300-477	1	1	1	1
SU60KX	60,000/48,000	Contact Tripp Lite for Customized Runtime Solutions	—	A B	220/380, 230/400 or 240/415, 3ø, 4-wire (plus ground), wye	173-276/300-477	1	1	1	1
SU80KX	80,000/64,000	Contact Tripp Lite for Customized Runtime Solutions	—	A B	220/380, 230/400 or 240/415, 3ø, 4-wire (plus ground), wye	173-276/300-477	1	1	1	1

External Battery Modules, Internal Battery Packs and Accessories

A BP480V26B	480V external battery module. Tower, hardwired (for all models).
B BP480V40C	480V external battery module. Tower, hardwired (for all models).
SURBC2030	Replacement internal battery pack (240V, for SU20KX and SU40KX models only).
SU20KMBP	External maintenance bypass panel (for SU20KX models only). Wall mount.
SU40KMBPX	External maintenance bypass panel (for SU40KX models only). Wall mount.
SU60KMBPX	External maintenance bypass panel (for SU60KX models only). Wall mount.
SU80KMBPX	External maintenance bypass panel (for SU80KX models only). Wall mount.
SNMPWEBCARD	Internal SNMP/Web management card (connects UPS system to Ethernet).
ENVIROSENSE	Allows UPS to monitor external temperature/humidity & contact-closure inputs (requires SNMPWEBCARD).

^(A) SU20KX and SU40KX models include internal batteries. Backup times will vary depending on battery condition and load. SU60KX and SU80KX models require a standalone external battery module (either BP480V26B or BP480V40C, available separately) to provide battery backup support. All models accept connection of additional external battery modules for extended runtime. ^(B) For use with optional internal cards. SNMP/Web management accessory card (model: SNMPWEBCARD) available separately from Tripp Lite. 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: start-up and on-site service programs, interactive UPS System selector guide, extended warranties, owner's manuals and more!