



SmartOnline™ Intelligent True On-Line UPS Systems



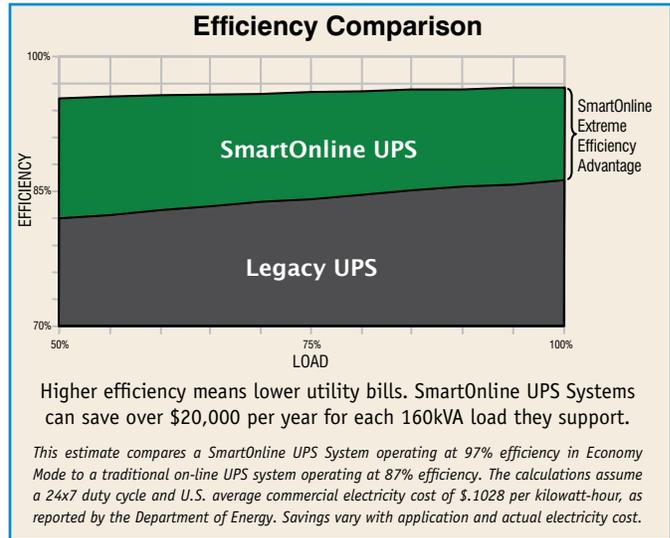
- 750VA – 160kVA
- Up to 97% Efficiency
- True On-Line Operation
- Pure Sine Wave Output
- Free PowerAlert Network Management System
- Ideal Protection for Critical Systems

SAVE ENERGY & REDUCE OPERATING COSTS

Replacing traditional on-line UPS systems with high-efficiency SmartOnline UPS Systems will make your data center cooler, greener and more cost-effective. All UPS systems are less than 100% efficient because part of the electricity drawn by the UPS is lost as radiated heat before it reaches your equipment. The heat also requires cooling systems to work harder, consuming an additional ½ watt of cooling for each watt lost by the UPS.*

Tripp Lite's SmartOnline UPS Systems have good overall efficiency and offer an Economy Mode setting that delivers even better efficiency. SmartOnline UPS Systems are up to 97% efficient in Economy Mode, a potential increase of 10% or more versus traditional on-line UPS systems. Replacing 160kVA of traditional UPS capacity with SmartOnline UPS Systems can save more than \$20,000 per year. You'll also reduce your facility's CO₂ emissions by 136 tons (enough to offset more than 2,000 flights from New York to Washington) and conserve more than 200 megawatt-hours of electricity (enough to power 18 typical U.S. homes).**

*Reported by Gartner, IBM, Intel and other sources. **Based on U.S. average residential electricity consumption of 936kWh per month, as reported by the Department of Energy.



OPTIMIZE EFFICIENCY

UPS efficiency is typically best at full load and decreases as the load decreases. Operating at less than 100% load is recommended to avoid overloads caused by fluctuating power requirements, but the load is often far below recommended levels simply



because it hasn't been optimized. Tripp Lite offers several tools to help you safely right-size load levels and balance fault tolerance and efficiency. Metered, Monitored and Switched PDUs include load meters that allow you to monitor load levels on-site. Monitored and Switched PDUs also include a network interface that allows you to monitor load levels remotely. The optional SNMPWEBCARD accessory adds the same capability to any SmartOnline UPS System.

PROTECT CRITICAL SYSTEMS

SmartOnline UPS Systems provide ideal protection for servers, storage, network equipment and telecom equipment in data center, colocation, virtualization, VoIP, cloud computing, computer room, network closet, generator backup and other applications. True on-line, double-conversion operation delivers precision-regulated, pure sine wave output power, isolating equipment from damaging power problems, including blackouts, brownouts, overvoltages, surges, line noise, harmonic distortion, electrical impulses and frequency variations. Optional external battery packs provide unlimited runtime scalability to meet any battery backup requirement. SmartOnline Hot-Swappable and Modular 3-Phase UPS Systems also include hot-swappable power module technology and advanced bypass features that eliminate critical system downtime and ensure business process continuity, even during UPS maintenance, repair or replacement.

PROTECT THE PLANET

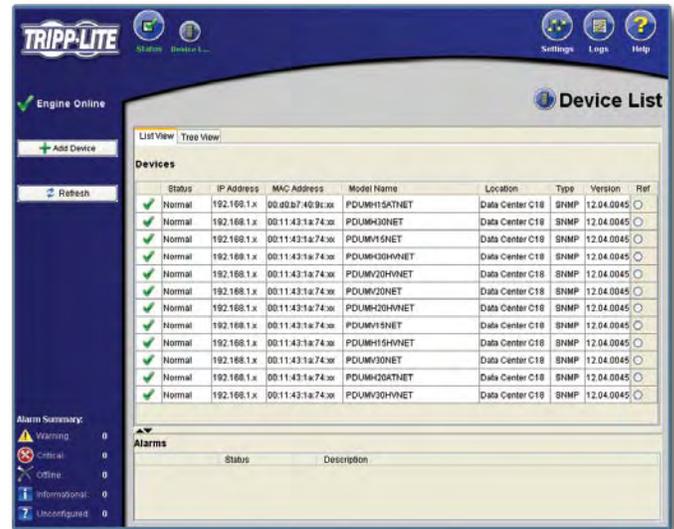
Tripp Lite was an early supporter of the RoHS (Restriction of Hazardous Substances) directive and leads the industry in RoHS compliance.



RoHS limits the use of six hazardous substances: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ether (PBDE). Tripp Lite manufactures hundreds of RoHS-compliant products—including SmartOnline UPS Systems—which can be identified by the RoHS logo. Successful recycling initiatives also allow most components to reenter the supply chain instead of landfills.

CENTRALIZE POWER MANAGEMENT

You can use the included PowerAlert Network Management System to manage the Economy Mode settings of SmartOnline UPS Systems manually or define a schedule to turn Economy Mode on and off automatically. You can also schedule automated equipment idling through remotely switchable UPS outlet banks or Tripp Lite Switched PDU outlets. Remotely switchable outlets that aren't being used can be locked out to prevent unauthorized loads that increase the risk of circuit overloads.



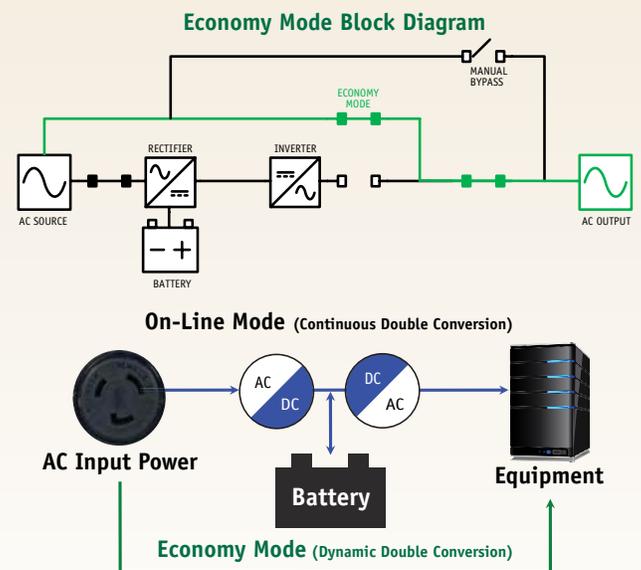
PowerAlert Network Management System can control Economy Mode settings and remotely switchable outlets for hundreds of SmartOnline UPS Systems and PDUs over your network from a single workstation.

ECONOMY MODE OPERATION

When a SmartOnline UPS System operates in on-line mode, it continuously converts AC input power to DC (battery) power and converts DC power to regulated AC output power. Continuous double conversion produces ideal output, but does not provide maximum efficiency.

In Economy Mode, the UPS increases efficiency through dynamic double conversion (also known as on-line on demand), which means it suspends or resumes double conversion automatically as the quality of input power changes. While input power quality is satisfactory, the UPS system suspends double conversion and operates with maximum efficiency. If input power quality deviates from the designated safe operating range, the UPS system resumes double conversion until input power quality improves.

Using the included PowerAlert software, you can turn Economy Mode on or off at any time, from any location. You can also schedule Economy Mode, allowing the UPS system to provide maximum protection during peak hours and maximum efficiency during off-peak hours.



In Economy Mode, a SmartOnline UPS System suspends and resumes double conversion dynamically. If input power quality deviates from the safe operating range, the UPS system automatically resumes double conversion until input power quality improves.



SmartOnline Modular 3-Phase UPS



SmartOnline Hot-Swappable UPS



SmartOnline UPS



Power Management Accessories

SPECIFICATIONS

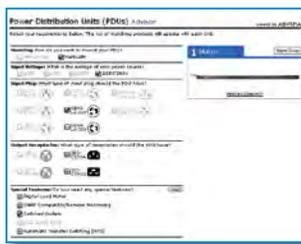


UPS Series	Economy Mode	Capacity	Topology	Form Factor	Expandable Runtime (1)	Internal Card Slot	Hot-Swappable Batteries	Hot-Swappable Power Module(s)	Pure Sine Wave Output
SmartOnline	Yes	750VA-5kVA	On-Line	Tower or Rack/Tower	Yes	Yes	Yes	No	Yes
SmartOnline Hot-Swappable	Yes	5-20kVA	On-Line	Rack/Tower	Yes	Yes	Yes	Yes	Yes
SmartOnline Modular 3-Phase	Yes	40-80kVA (160kVA in Parallel)	On-Line	Tower	Yes	Yes	Yes	Yes	Yes

Power Management Accessories

SNMPWEBCARD	Internal card adds Ethernet network interface to compatible UPS systems for remote monitoring and control via SNMP, Web or telnet.
ENVIROSENSE	Environmental sensor connects to SNMPWEBCARD and compatible PDUs for remote monitoring of temperature, humidity and dry contacts.
MODBUSCARD	Internal card adds interface for Modbus RTU industrial communications protocol, RS-422/485 and RS-232 to compatible UPS systems.
RELAYIOCARD	Internal card adds programmable contact closure interface to compatible UPS systems. Includes 6 output contacts and 1 input contact.

Certifications vary by model. (1) Requires external battery packs, sold separately.



PRODUCT SELECTOR GUIDES

Go to www.tripplite.com/selectors to access Tripp Lite's dynamic product selector guides. Refine choices according to your feature requirements, then compare compatible models to find the ideal product for your application. Selectors for UPS systems, PDUs, replacement UPS batteries, racks, KVM switches, surge suppressors, inverters and cables are available.

ABOUT TRIPP LITE

Since 1922, Tripp Lite has established a global reputation for quality manufacturing, superior value and excellent service. Tripp Lite makes more than 3,000 products to power, protect and connect electronic equipment, including UPS systems, replacement batteries, PDUs, rack systems, cooling solutions, surge suppressors, cables, KVM switches, IP console servers, power strips and inverters. Headquartered in Chicago, Tripp Lite maintains offices worldwide. Learn more at www.tripplite.com.

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TRIPP LITE WORLD HEADQUARTERS
1111 W. 35th Street, Chicago, IL 60609 USA
773.869.1234 • www.tripplite.com