

Smart-UPS[®]RT

220/230/240V

Versatile, high density power protection for computer networks, telecommunications, and industrial applications



Features and Benefits

Availability

Zero Transfer Time ensures no interruption of mission-critical applications when UPS transfers to/from the batteries.

Wide Input Voltage Range 160-280 VAC input voltage range at full load allows less time on battery while preserving battery capacity for blackout conditions. Input voltage can go as low as 100 VAC, at half load, without using the battery.

Continuous Voltage and Frequency Regulation Smart-UPS[®] RT provides premium, regulated sinewave power for sensitive equipment. Smart-UPS RT is also generator-set compatible.

Built-in Automatic & Manual Bypass ensures continuous supply of power to the critical loads in the event of electronic failure, overload condition, or scheduled maintenance.

Scalable Runtime Unlimited number of matching battery packs can be added to increase runtime to desired levels.

Faster Recharge Time ensures battery power is available more quickly for subsequent power disturbances.

Cold Start allows the unit to be powered without input power being available.

Intelligent Battery Management utilizes microprocessor to control battery charging and diagnostic testing ensuring maximum battery life.

Hot-Swappable, User Replaceable Batteries

allow continuous operation of the load when batteries are being replaced by the end user.



User-friendly, hot-swappable battery replacement

Protection

Sine-wave Output provides assurance of compatibility with all types of loads.

Lightning and Surge Protection Integrated Surge Suppression is superior to separate surge suppressors.

Network-grade Line Conditioning provides full time EMI/RFI filtering, thus preventing data errors caused by line noise.

Emergency Power Off (EPO) Smart-UPS RT can be attached to central EPO system for shutdown in an emergency situation.

Unattended Safe & Graceful Shutdown

prevents possible data corruption by providing systematic, unattended operating system shutdown in the event of an extended power outage.

Alarms and Indicators provide operational status information of the UPS instantaneously.

Redundancy

Automatic Transfer Switch Application provides redundant power to single-corded equipment.



PowerChute[®] Network Shutdown

Software allows for simultaneous management of two UPSs. Supports multiple servers as well as 2N configurations. Servers with one primary and one redundant power supply can be plugged into separate UPSs.

Economy

Input Power Factor Correction increases safety and compliance with regional wiring/ electrical standards. Also reduces the utility power and wiring costs.

Adaptability

Rack/Tower Convertible gives Smart-UPS RT a flexible form factor enabling integration into a wide variety of end-user environments.

1:1 and 3:1 Combined in a Single Product

allows the same product to be wired to a singlephase or a three-phase input. This feature is available in Smart-UPS RT 8000/10000 VA models only.

Multiple Output Voltages 230 VAC nominal output voltage can be programmed for 220 or 240 VAC operation.

Auto-sensing and Programmable

Frequency automatically provides 50 or 60 Hz. The end user can also set output frequency to desired tolerance levels.

Flash Programmable Firmware makes the UPS field-upgradeable.

Terminal Mode Programmability is a menu-driven interface that allows quick and easy configuration of the UPS. Ideal for users not using PowerChute[®] software or a management card.

Built-in SmartSlot houses APC's accessory cards, which increase overall system manageability through timely notification of hazardous conditions.



APC accessory cards can be inserted into the built-in SmartSlot to allow monitoring of power conditions. The Smart-UPS RT 5000, 8000, and 10,000 units ship bundled with the Web/SNMP Management Card

INFORMATIVE LED DISPLAY PROVIDES STATUS AT A GLANCE

- (A) Load Display shows the power being drawn by the load so you can avoid exceeding capacity.
- (B) **On-line LED** lights when the UPS is drawing utility power and performing double conversion to supply clean power.
- (c) **On-Battery LED** lights and alarm sounds when the UPS is supplying battery power to the load.
- **Bypass LED** lights when unit is operating in bypass mode.
- (E) **Overload LED** lights and alarm sounds when the load connected to the UPS exceeds capacity.
- Fault LED lights when unit is experiencing an internal fault.



- (G) Replace Battery lights and alarm sounds when the UPS battery is nearly dead and must be replaced (typically within 30 days).
- Battery Charge/Line Voltage displays both present battery charge as a percentage of battery capacity and utility line voltage. Alarm sounds upon low battery condition.
- ① **Off Button** turns off the UPS and the load and is designed to prevent accidental shutdowns.
- On/test button turns on the UPS and activates the UPS self-test and utility line voltage displays.

Display can be rotated 90° for correct orientation as unit is shifted from tower to rack configuration.

Global Service Programs



APC Smart-UPS[®] RT Service Recommendations

APC Smart-UPS RTs are easy to install and maintain, but for customers who desire hands off service, APC can provide start-up and on-site services. Additionally, extended warranties are recommended for those customers who prefer to keep their UPS for extended periods of time.

Warranty Services

PowerPlan Extended Warranties

- Next business day replacement of unit/parts
- 24x7 telephone technical support

On-Site Support Service

- Next business day on-site replacement of unit/parts
- 24x7 telephone technical support

Replacement Battery Cartridges

- Genuine APC replacement batteries
- Use of Non-APC batteries voids APC's Equipment Protection Plan

Start-up Service

• Delivers the vital resources, expertise, and tools needed to quickly and efficiently implement APC solutions

Other Installation and Consulting Services

- Network Integration
- Power Audit Consulting Service

Smart-UPS RT Runtime Chart

| SURT1 | 000XLI | | | | | | |
|---|--|--|---|--|---|--|--|
| VA | Watts | SURT1000XLI | +1 SURT48XLBP | +2 SURT48XLBP | +5 SURT48XLBP | +10 SURT48XLBP | |
| 140 | 100 | 1h 16m | 5h 11m | 9h 23m | 22h 50m | 46h 44m | |
| 280 | 200 | 43m | 3h 1m 5h 30m 13h 25m | | 27h 30m | | |
| 420 | 300 | 29m | 2h 5m | 3h 50m | 9h 23m | 19h 16m | |
| 570 | 400 | 21m | 1h 35m | 2h 55m | 7h 10m | 14h 43m | |
| 710 | 500 | 16m | 1h 16m | 2h 20m | 5h 46m | 11h 52m | |
| 1000 | 700 | 10m | 53m | 1h 39m | 4h 7m | 8h 29m | |
| SURT2 | 000XLI | | | | | | |
| VA | Watts | SURT2000XLI | +1 SURT48XLBP | +2 SURT48XLBP | +5 SURT48XLBP | +10 SURT48XLBP | |
| 280 | 200 | 59m | 3h 47m | 6h 57m | 17h 31m | 37h 37m | |
| 710 | 500 | 22m | 1h 33m | 2h 54m | 7h 23m | 15h 55m | |
| 1140 | 800 | 12m | 55m | 1h 44m | 4h 30m | 9h 44m | |
| 1420 | 1000 | 8m | 43m | 1h 21m | 3h 31m | 7h 38m | |
| 1710 | 1200 | 6m | 34m | 1h 5m | 2h 52m | 6h 14m | |
| 2000 | 1400 | 4m | 28m | 55m | 2h 24m | 5h 15m | |
| SURT3 | 000XLI | | | | | | |
| VA | Watts | SURT3000XLI | +1 SURT192XLBP | +2 SURT192XLBP | +5 SURT192XLBP | +10 SURT192XLBP | |
| 710 | 500 | 1h 16m | 4h 23m | 7h 43m | 18h 20m | 37h 12m | |
| 1140 | 800 | 46m | 2h 43m | 4h 48m | 11h 27m | 23h 16m | |
| 1420 | 1000 | 36m | 2h 29m | 3h 48m | 9h 6m | 18h 31m | |
| 1710 | 1200 | 29m | 1h 46m | 3h 8m | 7h 32m | 15h 19m | |
| 2280 | 1600 | 20 m | 1h 17m | 2h 18m | 5h 33m | 11h 19m | |
| 3000 | 2100 | 14m | 57m | 1h 40m | 4h 15m | 8h 48m | |
| SURT5 | 000XLI | | | | | | |
| VA | Watts | SURT5000XLI | +1 SURT192XLBP | +2 SURT192XLBP | +5 SURT192XLBP | +10 SURT192XLBP | |
| 1000 | 700 | 47m | 2h 44m | 4h 50m | 11h 33m | 23h 27m | |
| 2000 | 1400 | 21m | 1h 18m | 2h 20m | 5h 38m | 11h 28m | |
| _ | | | | 11- 40 | | | |
| 2570 | 1800 | 15m | 59m | 1h 46m | 4h 18m | 8h 47m | |
| 3570 | 2500 | 9m | 41m | 1h 14m | 3h 1m | 6h 11m | |
| 3570 4280 | 2500 3000 | 9m 7m | 41m 33m | 1h 14m 1h | 3h 1m 2h 28m | 6h 11m 5h 4m | |
| 3570 4280 5000 | 2500 3000 3500 | 9m | 41m | 1h 14m | 3h 1m | 6h 11m | |
| 3570 4280 5000 SURT6 | 2500 3000 3500 000XLI | 9m 7m 5m | 41m 33m 27m | 1h 14m 1h 50m | 3h 1m 2h 28m 2h 5m | 6h 11m 5h 4m 4h 17m | |
| 3570 4280 5000 SURT6 VA | 2500 3000 3500 000XLI Watts | 9m 7m 5m SURT6000XLI | 41m 33m 27m +1 SURT192XLBP | 1h 14m 1h 50m +2 SURT192XLBP | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP | |
| 3570 4280 5000 SURT6 VA 875 | 2500 3000 3500 000XLI Watts 700 | 9m 7m 5m SURT6000XLI 57m | 41m 33m 27m +1 SURT192XLBP 2h 38m | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP 11h 6m | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP 22h 33m | |
| 3570 4280 5000 SURT6 VA 875 1250 | 2500 3000 3500 000XL1 Watts 700 1000 | 9m 7m 5m SURT6000XLI 57m 69m | 41m 33m 27m +1 SURT192XLBP 2h 38m 1h 50m | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m 3h 15m | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP 11h 6m 7h 47m | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP 22h 33m 15h 50m | |
| 3570 4280 5000 SURT6 VA 875 1250 2500 | 2500 3000 3500 000XL1 Watts 700 1000 2000 | 9m 7m 5m SURT6000XLI 57m 69m 17m | 41m 33m 27m +1 SURT192XLBP 2h 38m 1h 50m 52m | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m 3h 15m 1hr 33m | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP 11h 6m 7h 47m 3h 47m | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP 22h 33m 15h 50m 7h 44m | |
| 3570 4280 5000 SURT6 VA 875 1250 2500 3125 | 2500 3000 3500 000XLI Watts 700 1000 2000 2500 | 9m 7m 5m SURT6000XLI 57m 69m 17m 12m | 41m 33m 27m +1 SURT192XLBP 2h 38m 1h 50m 52m 40m | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m 3h 15m 1hr 33m 1h 13m | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP 22h 33m 15h 50m | |
| 3570 4280 5000 SURT6 VA 875 1250 2500 | 2500 3000 3500 000XL1 Watts 700 1000 2000 | 9m 7m 5m SURT6000XLI 57m 69m 17m | 41m 33m 27m +1 SURT192XLBP 2h 38m 1h 50m 52m | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m 3h 15m 1hr 33m | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP 11h 6m 7h 47m 3h 47m | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP 22h 33m 15h 50m 7h 44m 6h 6m | |
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| 3570 4280 5000 SURT6 VA 875 1250 2500 3125 3750 | 2500 3000 3500 000XLI Watts 700 1000 2000 2500 3000 4000 | 9m 7m 5m SURT6000XLI 57m 69m 17m 12m 9m | 41m 33m 27m +1 SURT192XLBP 2h 38m 1h 50m 52m 40m 32m | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m 3h 15m 1hr 33m 1h 13m 60m | 3h 1m 2h 28m 2h 5m +5 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m 2h 26m 1h 47m | 6h 11m 5h 4m 4h 17m +10 SURT192XLBP 22h 33m 15h 50m 7h 44m 6h 6m 5h 1m 3h 41m | |
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| 3570 4280 5000 SURT6 VA 875 1250 3125 3750 5000 SURT8 VA 875 1250 3125 3750 5000 3125 3750 5000 6250 7500 SURT1 VA 1250 | 2500 3000 3500 000XLI 700 2000 2500 3000 4000 000XLI 2500 3000 2500 3000 2500 3000 4000 5000 6000 000XLI Watts 1000 | 9m 7m 5m 5m 3URT6000XLI 69m 69m 17m 9m 12m 9m 3 8m 3 8m 3 12m 12m 1 3 9m 3 1 3 1 3 1 3 1 1 6 1 3 2 4 1 9 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 | 41m 33m 27m 41 27m 40 11 52m 32m 32m 40m 32m 32m 40m 32m 40m 40m 32m 32m 40m 40m 32m 32m 40m 40m 40m 32m 40m 40m 40m 40m 40m 40m 40m 40m 40m 40 | 1h 14m 1h 50m +2 SURT192XLBP 4h 39m 3h 15m 3h 15m 3h 15m 3h 3m 52m +2 SURT192XLBP 4h 34m 52m +2 SURT192XLBP 3h 17m 1h 7m 1h 7m 1h 7m 1h 3m 1h 3m 1h 3m 35m 28m +2 SURT192XLBP | 3h 1m 2h 28m 2h 5m 45 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m 2h 26m 1h 47m 45 SURT192XLBP 9h 50m 7h 4m 3h 33m 2h 49m 2h 19m 1h 42m 1h 19m 1h 5m 45 SURT192XLBP 7h 4m | 6h 11m 5h 4m 4h 17m 2h 3m 22h 33m 22h 33m 15h 50m 7h 44m 6h 6m 5h 1m 3h 41m 5h 1m 3h 41m 410 SURT192XLBP 13h 46m 6h 57m 5h 31m 6h 57m 5h 31m 2h 34m 2h 38m 2h 10m +10 SURT192XLBP 13h 46m | |
| 3570 4280 5000 SURT6 75 1250 2500 3125 3750 5000 SURT8 750 3125 3750 3125 3750 3125 3750 5000 6250 7500 SURT1 VA 1250 2500 | 2500 3000 3500 000XLI 700 2000 2500 3000 4000 000XLI 2500 3000 2500 3000 2500 3000 4000 5000 6000 0000XLI Watts 1000 2000 | 9m 7m 5m 5m 3URT6000XLI 69m 69m 17m 9m 12m 9m 3m 3m 3m 3m 3m 12m 3m 3m 3m 3m 10m 10m 10m 10m 3m 10m 10m 10m 10m 10m 10m 10m 10m 10m 10 | 41m 33m 27m 41 27m 40 11 52m 32m 32m 32m 32m 32m 40m 32m 32m 32m 32m 32m 32m 32m 32m 32m 32 | 1h 14m 1h 50m 4 12 SURT192XLBP 4h 39m 3h 15m 3h 15m 3h 15m 3h 37m 4 52m 4 2 3 4 3 4 3 4 3 4 1 1 1 3 3 1 1 1 3 3 1 1 1 3 3 1 1 1 3 3 1 1 1 3 3 5 1 3 1 1 1 3 3 5 1 3 1 1 1 3 3 1 1 1 3 3 1 1 1 1 | 3h 1m 2h 28m 2h 5m 45 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m 2h 26m 1h 47m 45 SURT192XLBP 9h 50m 7h 4m 3h 33m 2h 49m 2h 19m 1h 42m 1h 19m 1h 19m 1h 5m 45 SURT192XLBP 7h 4m 3h 33m | 6h 11m 5h 4m 4h 17m 22h 33m 22h 33m 15h 50m 7h 44m 6h 6m 5h 1m 3h 41m 5h 1m 3h 41m 19h 6m 13h 46m 13h 46m 6h 57m 5h 31m 4h 34m 3h 21m 2h 38m 2h 10m +10 SURT192XLBP 13h 46m 6h 57m | |
| 3570 4280 5000 SURT6 VA 875 12500 3125 3750 5000 42500 3125 3500 6250 7500 SURT1 VA 1250 2500 3125 33750 3125 33750 3125 33750 3125 3325 3325 3325 325 325 325 325 325 32 | 2500 3000 3500 000XLI 700 2000 2500 3000 4000 4000 2000 2500 3000 2500 3000 4000 5000 6000 0000XLI Watts 1000 2000 3000 | 9m 7m 5m 5m 3URT6000XLI 69m 69m 17m 9m 12m 9m 3m 3m 3m 3m 3m 3m 32m 10m 13m 10m 13m 10m 10m 10m 10m 10m 10m 10m 10m 10m 10 | 41m 33m 27m 41 52m 2h 38m 32m 32m 40m 32m 32m 28m 40m 32m 28m 40m 32m 32m 28m 40m 32m 32m 28m 21m 30m 39m 28m 21m 39m 21m 39m 21m 39m 21m 39m 21m 39m | 1h 14m 1h 50m 4 12 SURT192XLBP 4h 39m 3h 15m 3h 15m 3h 15m 3h 3m 52m 4 2 4h 34m 4 3h 17m 1h 37m 1h 37m 1h 37m 28m 28m 4 4 5 28m 28m 28m 28m 28m 28m 28m 28m 28m 28m | 3h 1m 2h 28m 2h 5m 45 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m 2h 25m 2h 26m 1h 47m 2h 59m 7h 4m 3h 33m 2h 49m 2h 19m 1h 42m 1h 19m 3h 13m 2h 19m 3h 33m 2h 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3 | 6h 11m 5h 4m 4h 17m 4h 17m 22h 33m 22h 33m 22h 33m 6h 6m 5h 1m 3h 41m 5h 1m 3h 41m 410 SURT192XLBP 19h 6m 13h 46m 6h 57m 5h 31m 4h 34m 2h 30m 2h 10m 4h 34m 3h 21m 2h 38m 2h 10m | |
| 3570 4280 5000 SURT6 75 1250 3125 3750 5000 SURT8 750 3125 3750 3125 3750 5000 6250 7500 SURT1 VA 1250 3750 3125 3750 3125 3750 3125 5000 5001 5000 5001 7500 | 2500 3000 3500 000XLI 700 2000 2500 3000 4000 000XLI 3000 2500 2500 3000 2500 3000 4000 5000 0000XLI Watts 1000 2000 3000 2000 3000 2000 4000 2000 2 | 9m 7m 5m 5m 3URT6000XLI 69m 69m 17m 9m 12m 9m 3m 3m 3m 3m 3m 12m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m 3m | 41m 33m 27m 41 27m 21 38m 38m 32m 40m 32m 32m 32m 40m 32m 40m 32m 40m 40m 32m 40m 40m 40m 40m 40m 40m 40m 40m 40m 40 | 1h 14m 1h 50m 4 +2 SURT192XLBP 4h 39m 3h 15m 3h 15m 60m 52m 4 +2 SURT192XLBP 4h 34m 4 53m 1h 37m 1h 37m 4 6 4 5 4 5 4 5 4 5 4 5 5 7 4 1 1 1 3 5 1 1 1 1 3 5 7 7 1 1 1 1 3 1 1 1 3 5 7 7 1 1 1 1 3 1 1 1 1 3 1 1 1 1 1 1 1 1 | 3h 1m 2h 28m 2h 5m 45 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m 2h 26m 1h 47m 45 SURT192XLBP 9h 50m 7h 4m 3h 33m 2h 49m 2h 19m 1h 42m 1h 19m 45 SURT192XLBP 7h 4m 3h 33m 2h 19m 1h 5m | 6h 11m 5h 4m 4h 17m 22h 33m 22h 33m 7h 44m 6h 6m 5h 1m 3h 41m 41m 7h 44m 6h 57m 7h 44m 3h 21m 2h 38m 2h 38m 2h 38m 2h 38m 2h 38m 2h 38m 3h 21m 2h 38m 6h 57m 3h 21m 2h 38m 2h 34 7h | |
| 3570 4280 5000 SURT6 2500 3125 3750 5000 SURT8 VA 875 1250 3125 3750 5000 6250 3125 3000 6250 5000 5000 5000 5000 5000 5000 3125 3750 3125 3750 3125 3750 3125 3750 3125 3750 | 2500 3000 3500 000XLI 700 2000 2500 3000 4000 000XLI 2500 3000 2500 3000 4000 5000 6000 0000XLI Watts 1000 2000 3000 3000 2000 4000 2000 | 9m 7m 5m 5m 3URT6000XLI 69m 17m 9m 12m 9m 3m 3m 3m 3m 12m 3m 3m 3m 30m 32m 32m 32m 32m 32m 32m 32m 32m 32m 32 | 41m 33m 27m 41 52m 38m 52m 40m 52m 40m 32m 28m 40m 32m 28m 40m 40m 40m 40m 40m 40m 40m 40m 40m 40 | 1h 14m 1h 50m 4 12 SURT192XLBP 4h 39m 3h 15m 1hr 33m 60m 52m 4 2 4h 34m 4 3 4 1hr 37m 1h 37m 1h 37m 1h 37m 4 6 4 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | 3h 1m 2h 28m 2h 5m 45 SURT192XLBP 11h 6m 7h 47m 3h 47m 2h 59m 2h 26m 1h 47m 45 SURT192XLBP 9h 50m 7h 4m 3h 33m 2h 19m 1h 42m 1h 19m 45 SURT192XLBP 7h 4m 3h 33m 2h 19m 1h 5m | 6h 11m 5h 4m 4h 17m 22h 33m 22h 33m 15h 50m 7h 44m 6h 6m 5h 1m 3h 41m 41m 19h 6m 13h 46m 6h 57m 5h 31m 6h 57m 5h 31m 2h 38m 2h 10m 4h 34m 3h 21m 2h 38m 6h 57m 13h 46m 6h 57m 13h 46m 6h 57m | |

| Smart-UPS [®] RT Technical Specifications | Smart-UPS RT 1000 | Smart-UPS RT 2000 | Smart-UPS RT 3000 | Smart-UPS RT 5000 | Smart-UPS RT 6000 | Smart-UPS RT 8000 | Smart-UPS RT 10000 |
|---|--|--|--|--|---|--|------------------------------|
| Capacity | 1kVA/.7kW | 2kVA/1.4kW | 3kVA/2.1kW | 5kVA/3.5kW | 6kVA/4.2kW | 8kVA/6.4kW | 10kVA/8kW |
| | | 2 | 0 | | 0.007 (1.2.007 | | |
| Output Voltage | | 230 (def | ault), 220, 240 VAC (u | ser selectable), singl | e phase | | |
| Output Voltage Regulation (Typical) | | | +/- 1% static, 5 | i% dynamic | | | |
| Output Connections | (6) IE | C C13 | (1 | B) IEC C13, (2) IEC C19 | 9 | (4) IEC C13, (4) IEC C19, hardwire output terminal block | |
| Efficiency at Full Load, Nominal Line | 87% | 90% | 91% | 92% | 92% | 92% | 92% |
| Output Frequency (sync'd to mains) | | 50 or 60 Hz, +/- 3Hz | auto-select default) | [or 50 or 60 Hz +/-0.1 | Hz (user selectable)] | | |
| Bypass | Auto | matic | | Δ | utomatic/Manual | | |
| Overload Capacity | | 10 | 95% - infinite, 125% - | 1 min, 150% - 30 sec | onds | | |
| Output Voltage Distortion | | < | 3% for linear loads, « | <5% for non-linear lo | ads | | |
| Crest Factor | | | | 3:1 | | | |
| Heat Dissipation (Watts), Nominal Line | 90 | 140 | 192 | 305 | 365 | 450 | 650 |
| Input | | | | | | | |
| Nominal Input Voltage | | 220, | 230 (default), 240 VA | C Single Ø | | 220, 230 (default), 240 | VAC Single or Three Ø |
| Input Frequency | | | 45-65 Hz Auto-selecting | | | | |
| Input Connection | IEC C14 IEC C20 | | | Hardwire | | | |
| Input Voltage Range | 160 - 280 VAC (at full load), 100 - 280 VAC (at half load) | | | | | | |
| Input Power Factor at Full Load | >.95 | | | | | | |
| Batteries | | | | | | | |
| Battery Type | | Maintenance-free, S | Sealed Lead-Acid, va | llve regulated, 3-6 ye | ars typical lifetime | | |
| Recharge Time to 90% Capacity | < 3 Hours | < 4 Hours | | | < 3 Hours | | |
| Communications and Management | 1 | | | 1 | | | |
| Interface Port | 1) SmartSlot acces | sory port; (1) Serial | communication port | (1) RJ-45 10/1 | 00 Base T Connectio | n; (1) Serial Commun | ication port |
| UPS Network Management Card with Environmental Monitoring | optional | | | included | | | |
| Management Software included | Solaris, Linux RedHat, PowerChu | | [.] Windows NT/2000/XP,Novell Netware, ute <i>plus</i> for HP-UX and IBM AIX ps with PowerChute Network Shutdown) | | PowerChute Network Shutdown for Windows NT/2000/XP, Novell Netware, Solaris, Linux RedHat, HP-UX, IBM AIX | | |
| Physical | | | | | | | |
| Dimensions HxWxD (mm and inches) | 85x432x482 mm, 3.4x17x19 in | | 130x432x660 mm, 5.1x17x26 in | | 264x432x663 mm, 10.4x17x26.12 in | | |
| U Height | 2 | | 3 | | | 6 | |
| Weight net/shipping (kg) | 23/27.8 kg | 25/29.8 kg | | 54.5/64 kg | | 111, | '129 kg |
| | | | | | | | |
| Environmental | | | | | | | |
| Environmental Operating Conditions | | 3,000 m | max elevation; 0-95% | 6 non-condensing hu | midity; 0-40° C | | |
| | | | - | ő non-condensing hu 5% non-condensing h | | | |
| Operating Conditions | < 50 | | - | | | | |
| Operating Conditions Storage Conditions | < 51 | 15,000 n | - | | numidity; -20 to 60° C | | |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) | | 15,000 n) dB | n max. elevation; 0-9 | | numidity; -20 to 60° C < 55 dB | N; PCBC; UL 1778; CS | A; VCCI |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) Warranty & Conformance | BSMI; C-Tick; CE; | 15,000 n) dB EN 50091-1; EN 5009 | n max. elevation; 0-9 1-2; VDE; EN 55022 C | 5% non-condensing h | numidity; -20 to 60° C < 55 dB 61000-3-2; GOST; JEO | | A; VCCI |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) Warranty & Conformance Approvals | BSMI; C-Tick; CE; | 15,000 n) dB EN 50091-1; EN 5009 | n max. elevation; 0-9 1-2; VDE; EN 55022 C | 5% non-condensing h lass A; EN 60950; EN 6 | numidity; -20 to 60° C < 55 dB 61000-3-2; GOST; JEO | | A; VCCI |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) Warranty & Conformance Approvals Warranty | BSMI; C-Tick; CE; | 15,000 n) dB EN 50091-1; EN 5009 | n max. elevation; 0-9 1-2; VDE; EN 55022 C | 5% non-condensing h lass A; EN 60950; EN 6 | numidity; -20 to 60° C < 55 dB 61000-3-2; GOST; JEO | | A; VCCI SURT10000XLI |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) Warranty & Conformance Approvals Warranty Ordering Guide | BSMI; C-Tick; CE; 2 ye | 15,000 n) dB EN 50091-1; EN 5009 ars, repair or replace | n max. elevation; 0-99 1-2; VDE; EN 55022 C 9, optional on-site wa | 5% non-condensing H lass A; EN 60950; EN 6 arranties available, o | numidity; -20 to 60° C < 55 dB 61000-3-2; GOST; JEO ptional extended war | rranties available | |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) Warranty & Conformance Approvals Warranty Ordering Guide Tower UPS Part Number | BSMI; C-Tick; CE; 2 ye; SURT1000XLI SURT1000XLI (+) SURTRK | 15,000 n 0 dB EN 50091-1; EN 5009 ars, repair or replace SURT2000XLI SURT2000XLI | n max. elevation; 0-9 1-2; VDE; EN 55022 C e, optional on-site wa SURT3000XLI SURT3000XLI | 5% non-condensing H lass A; EN 60950; EN 6 arranties available, o SURT5000XLI SURT5000XLI (+) SURTRK2 | surr6000XLI SURT6000XLI | SURT8000XLI SURT8000XLI | SURT10000XLI SURT10000XLI |
| Operating Conditions Storage Conditions Audible noise at 3 feet (1 m) Warranty & Conformance Approvals Warranty Ordering Guide Tower UPS Part Number Rack-mount UPS Part Number | BSMI; C-Tick; CE; 2 ye: SURT1000XLI SURT1000XLI (+) SURTRK SURT | 15,000 n 0 dB EN 50091-1; EN 5009 ars, repair or replace SURT2000XLI SURT2000XLI (+) SURTK | n max. elevation; 0-9 1-2; VDE; EN 55022 C e, optional on-site wa SURT3000XLI SURT3000XLI | 5% non-condensing H lass A; EN 60950; EN 6 arranties available, o SURT5000XLI SURT5000XLI (+) SURTRK2 | surr6000XLI SURT6000XLI SURT6000XLI SURT6000XLI SURT6000XLI (+) SURTRK2 | SURT8000XLI SURT8000XLI | SURT10000XLI SURT10000XLI |

Battery Packs

| Models | Net Weight (kg) | Ship Weight (kg) | Rack Height | Max Dimensions | Ship Dimensions (mm/in) | For Use With: | RBC |
|-------------|-----------------|------------------|-------------|-----------------|-------------------------|---------------------------------------|-----------|
| SURT48XLBP | 29.6 | 32.3 | 2U | 85 x 432 x 483 | 287 x 630 x 595 | SURT1000XLI, SURT2000XLI | 2 x RBC31 |
| | | | | 3.34 x 17 x 19 | 11.3 x 24.8 x 23.4 | | |
| SURT192XLBP | 90.9 | 101.4 | 3U | 130 x 432 x 660 | 414 x 600 x 1000 | SURT3000XLI, SURT5000XLI, SURT6000XLI | 2 x RBC44 |
| | | | | 5.1 x 17 x 26 | 16.3 x 23.6 x 39.4 | SURT8000XLI, SURT10000XLI | |