

# Smart-UPS<sup>®</sup>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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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	<b>20</b> 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	
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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	
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Smart-UPS <sup>®</sup> 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		<sup>.</sup> 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		<b>3,000</b> 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	