

Technical Specifications

Smart-UPS™ On-Line

230 V, 1 kVA to 20 kVA models



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Technical Data



Note: Unless otherwise noted, data contained in these technical specifications should be considered typical; actual performance may vary.

APC Smart-UPS On-Line Model List

Models with 230 V Output / 230 V Input

- | | |
|---|-----------------|
| • APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI |
| • APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI |
| • APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM |
| • APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI |
| • APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI |
| • APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM |
| • APC Smart-UPS RT 3000 VA 230 V with Pre-installed Input/Output Hardwire Kit (See Note below.) | SURT3000XLI-ET |
| • APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI |
| • APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI |
| • APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM |
| • APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI |
| • APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI |
| • APC Smart-UPS RT 5000 VA 230 V with Pre-installed Input/Output Hardwire Kit (See Note below.) | SURTD5000XLI-ET |
| • APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI |
| • APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI |
| • APC Smart-UPS RT 6000 VA 230 V with Pre-installed Input/Output Hardwire Kit (See Note below.) | SURT6000XLI-ET |
| • APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM |
| • APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI |
| • APC Smart-UPS RT 8000 VA 230 V | SURT8000XLI |
| • APC Smart-UPS RT 10,000 VA RM 230 V | SURT10000RMXLI |
| • APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI |



Note: The 3 models listed above with the Pre-installed Input/Output Hardwire Kit (SURT3000XLI-ET, SURTD5000XLI-ET, and SURT6000XLI-ET) are available only through the Electrical Channel.

Models with 230 V Output / 230 V, 400 V 3-Phase Input

- | | |
|------------------------------------|--------------|
| • APC Smart-UPS RT 15 kVA RM 230 V | SURT15KRMXLI |
| • APC Smart-UPS RT 20 kVA RM 230 V | SURT20KRMXLI |

Input Power Factor

The input power factor is >.95.

Efficiency

Models with 230 V Output / 230 V Input

| Model | SKU | Efficiency @ full load |
|---|-----------------|------------------------|
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | 88.0% |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | 88.0% |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | 88.0% |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | 90.0% |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | 90.0% |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | 92.0% |
| APC Smart-UPS RT 3000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURT3000XLI-ET | 92.0% |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | 92.0% |
| APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI | 92.0% |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | 92.0% |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | 92.0% |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | 92.0% |
| APC Smart-UPS RT 5000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURTD5000XLI-ET | 92.0% |
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | 92.0% |
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | 92.0% |
| APC Smart-UPS RT 6000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | 92.0% |
| APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM | 92.0% |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | 93.0% |
| APC Smart-UPS RT 8000 VA 230 V | SURT8000XLI | 93.0% |
| APC Smart-UPS RT 10,000 VA RM 230 V | SURT10000RMXLI | 92.0% |
| APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI | 92.0% |

Models with 230 V Output / 230 V, 400 V 3-Phase Input

| Model | SKU | Efficiency @ full load |
|----------------------------------|--------------|------------------------|
| APC Smart-UPS RT 15 kVA RM 230 V | SURT15KRMXLI | 94.0% |
| APC Smart-UPS RT 20 kVA RM 230 V | SURT20KRMXLI | 94.0% |

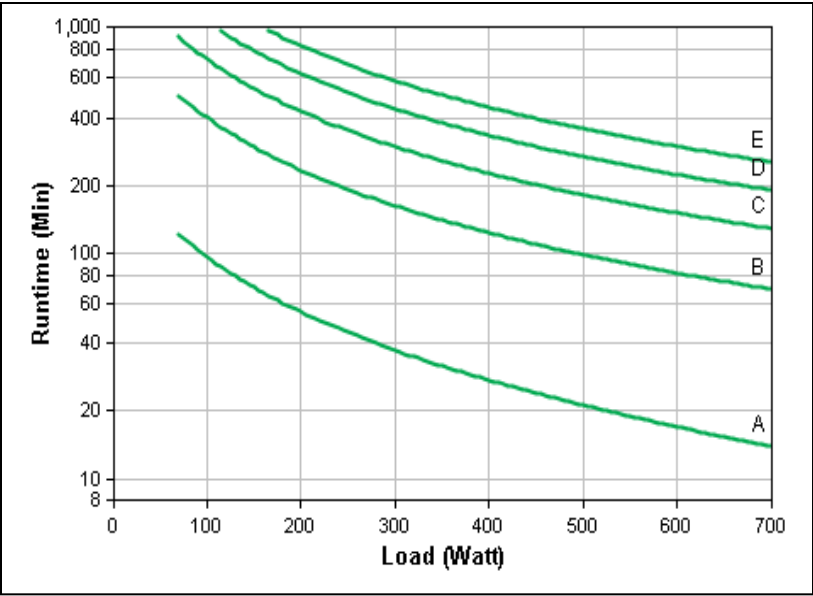
Batteries and Runtime

Battery Run-Times — APC Battery Solutions

Models with 230 V Output / 230 V Input

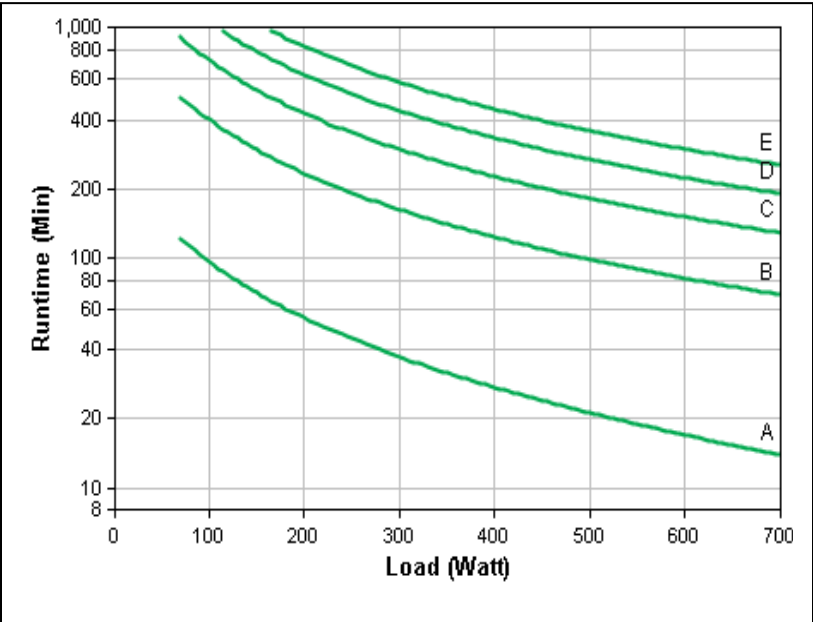
APC Smart-UPS RT 1000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-------------------------------------|
| A | SURT1000RMXLI |
| B | SURT1000RMXLI + (1) SURT48RMXLBP |
| C | SURT1000RMXLI + (2) SURT48RMXLBP |
| D | SURT1000RMXLI + (3) SURT48RMXLBP |
| E | SURT1000RMXLI + (4) SURT48RMXLBP |



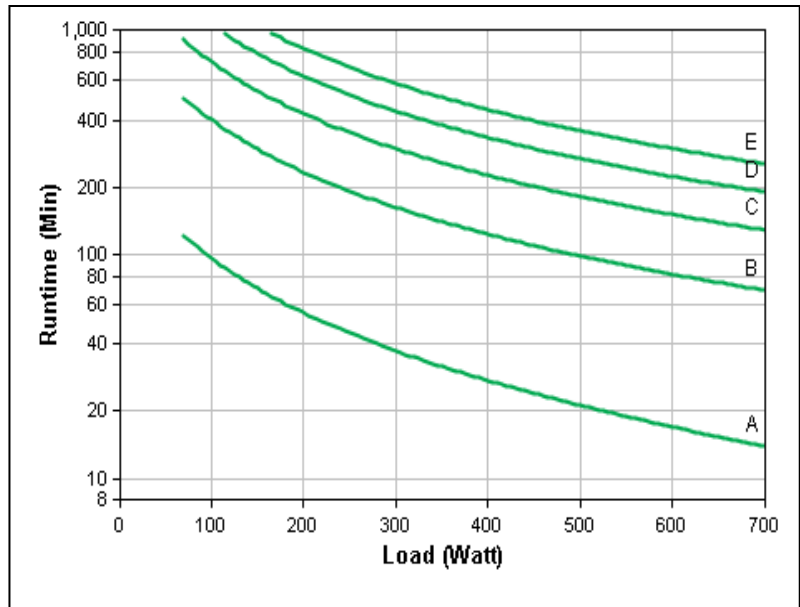
APC Smart-UPS RT 1000 VA 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|---------------------------------|
| A | SURT1000XLI |
| B | SURT1000XLI + (1) SURT48XLBP |
| C | SURT1000XLI + (2) SURT48XLBP |
| D | SURT1000XLI + (3) SURT48XLBP |
| E | SURT1000XLI + (4) SURT48XLBP |



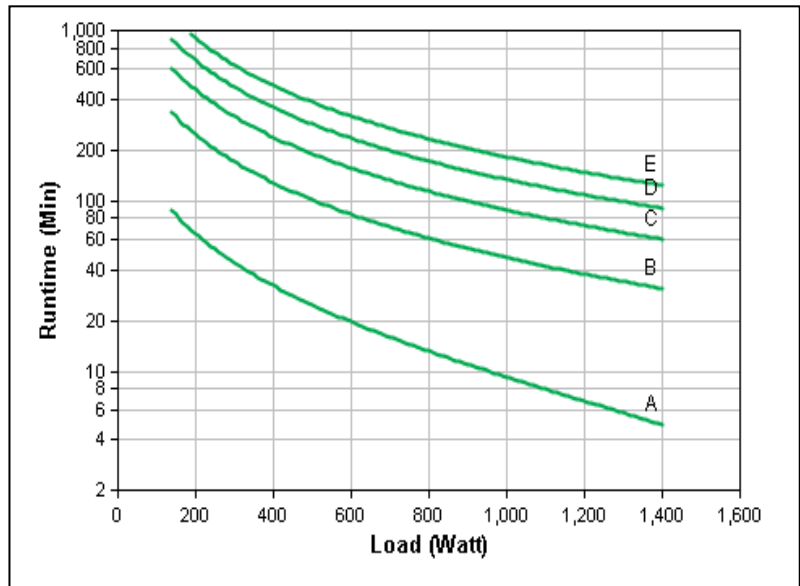
APC Smart-UPS RT 1000 VA 230 V - Marine, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|---------------------------------|
| A | SURT1000XLIM |
| B | SURT1000XLIM + (1)SURT48XLBP |
| C | SURT1000XLIM + (2)SURT48XLBP |
| D | SURT1000XLIM + (3)SURT48XLBP |
| E | SURT1000XLIM + (4)SURT48XLBP |



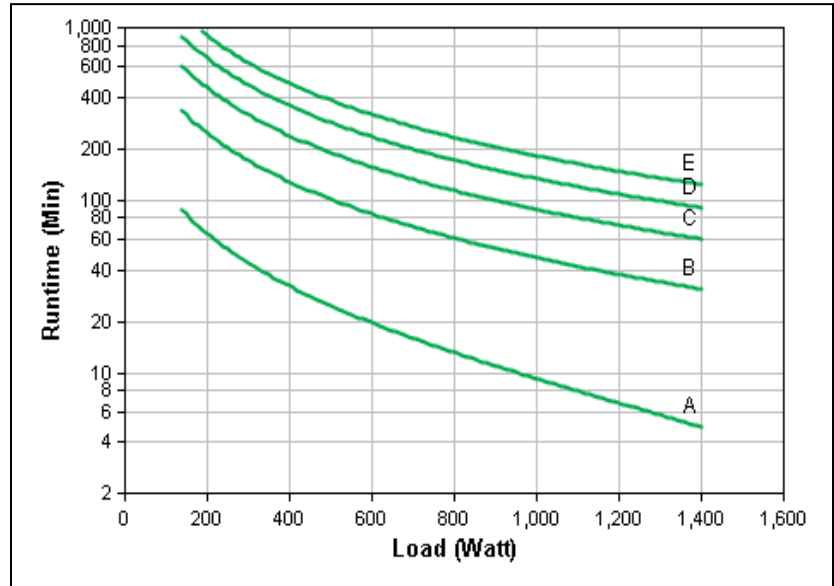
APC Smart-UPS RT 2000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|------------------------------------|
| A | SURT2000RMXLI |
| B | SURT2000RMXLI + (1)SURT48RMXLBP |
| C | SURT2000RMXLI + (2)SURT48RMXLBP |
| D | SURT2000RMXLI + (3)SURT48RMXLBP |
| E | SURT2000RMXLI + (4)SURT48RMXLBP |



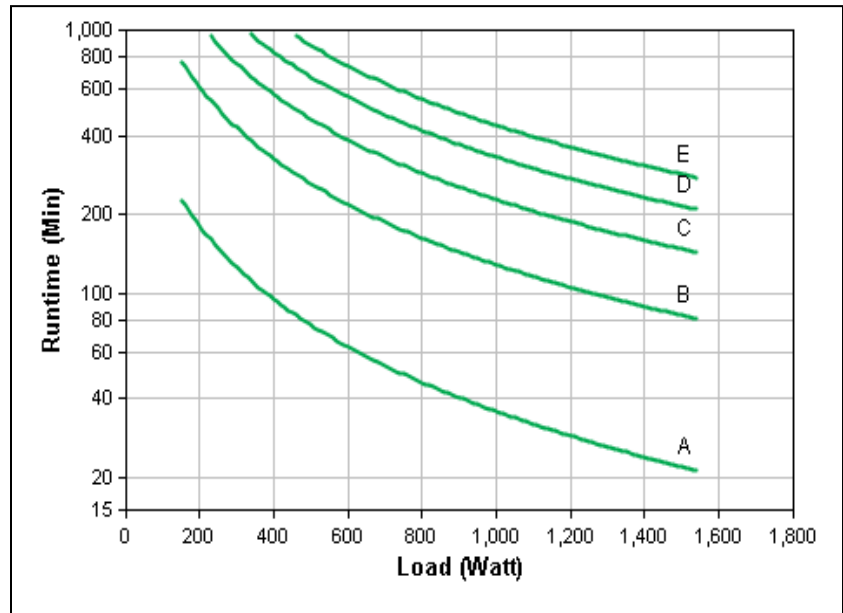
APC Smart-UPS RT 2000 VA 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|--------------------------------|
| A | SURT2000XLI |
| B | SURT2000XLI + (1)SURT48XLBP |
| C | SURT2000XLI + (2)SURT48XLBP |
| D | SURT2000XLI + (3)SURT48XLBP |
| E | SURT2000XLI + (4)SURT48XLBP |



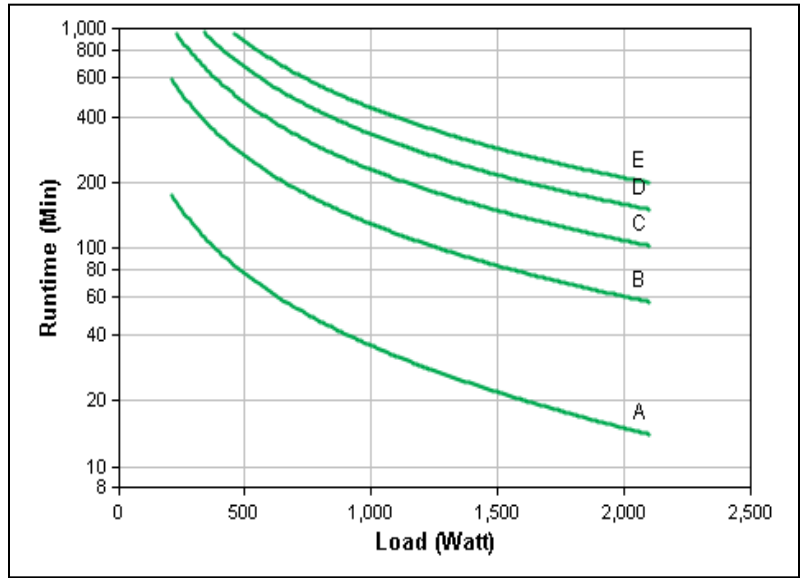
APC Smart-UPS RT 2200 VA 230 V – Marine, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-----------------------------------|
| A | SURTD2200XLIM |
| B | SURTD2200XLIM + (1)SURT192XLBP |
| C | SURTD2200XLIM + (2)SURT192XLBP |
| D | SURTD2200XLIM + (3)SURT192XLBP |
| E | SURTD2200XLIM + (4)SURT192XLBP |



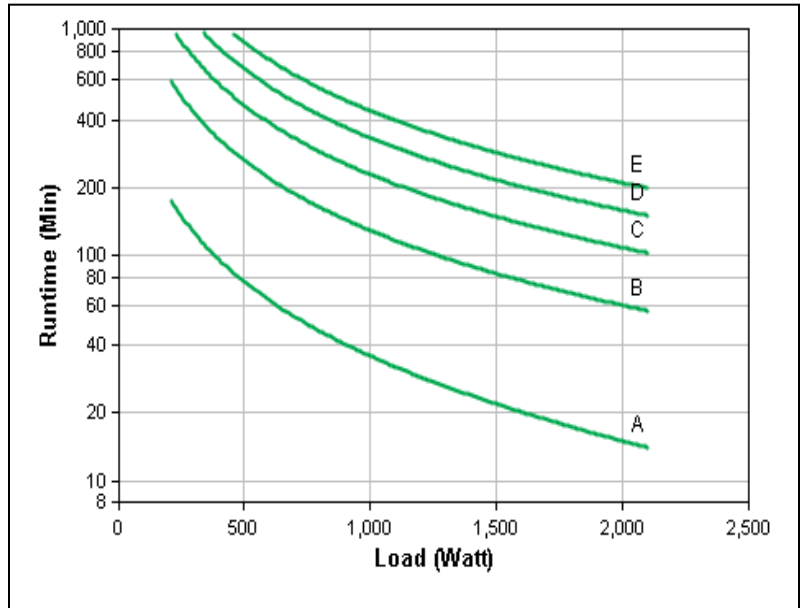
APC Smart-UPS RT 3000 VA, 230 V with Pre-installed Input/Output Hardwire Kit, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|------------------------------------|
| A | SURT3000XLI-ET |
| B | SURT3000XLI-ET + (1)SURT192XLBP |
| C | SURT3000XLI-ET + (2)SURT192XLBP |
| D | SURT3000XLI-ET + (3)SURT192XLBP |
| E | SURT3000XLI-ET + (4)SURT192XLBP |



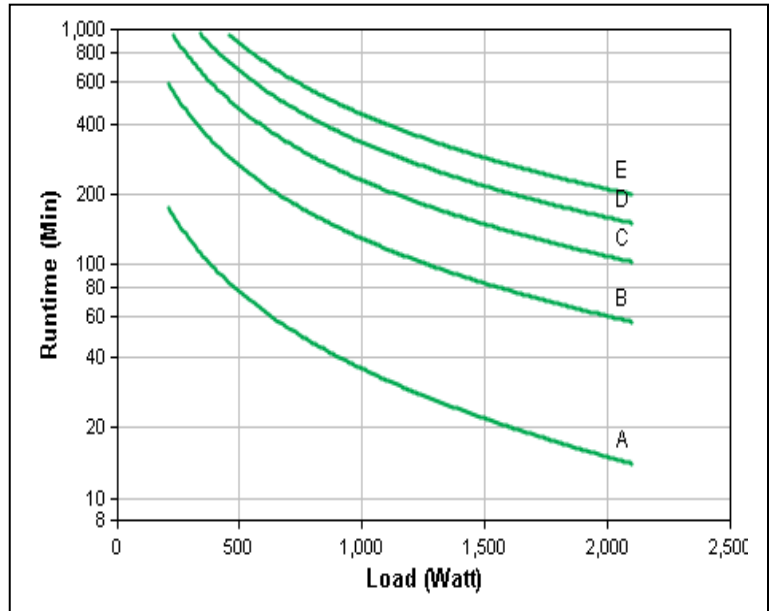
APC Smart-UPS RT 3000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|--------------------------------------|
| A | SURTD3000RMXLI |
| B | SURTD3000RMXLI + (1)SURT192RMXLBP |
| C | SURTD3000RMXLI + (2)SURT192RMXLBP |
| D | SURTD3000RMXLI + (3)SURT192RMXLBP |
| E | SURTD3000RMXLI + (4)SURT192RMXLBP |



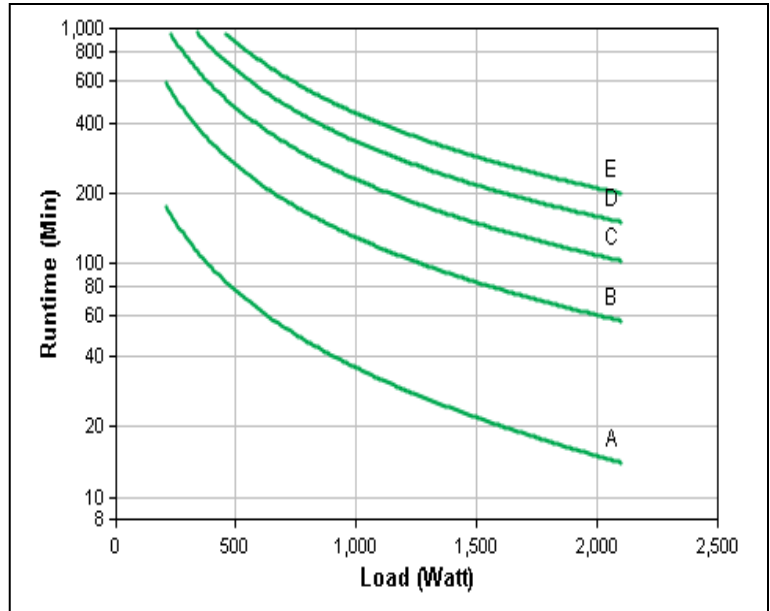
APC Smart-UPS RT 3000 VA 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|----------------------------------|
| A | SURTD3000XLI |
| B | SURTD3000XLI + (1)SURT192XLBP |
| C | SURTD3000XLI + (2)SURT192XLBP |
| D | SURTD3000XLI + (3)SURT192XLBP |
| E | SURTD3000XLI + (4)SURT192XLBP |



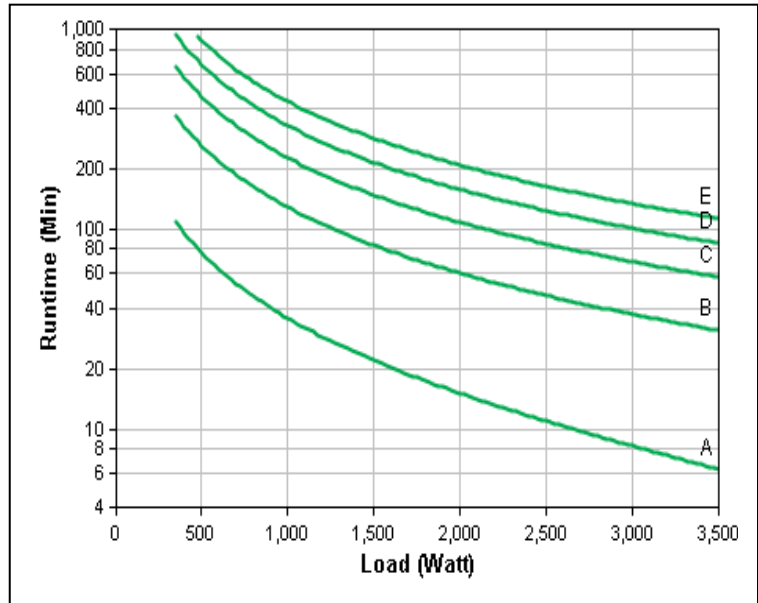
APC Smart-UPS RT 3000 VA 230 V – Marine, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-----------------------------------|
| A | SURTD3000XLIM |
| B | SURTD3000XLIM + (1)SURT192XLBP |
| C | SURTD3000XLIM + (1)SURT192XLBP |
| D | SURTD3000XLIM + (3)SURT192XLBP |
| E | SURTD3000XLIM + (4)SURT192XLBP |



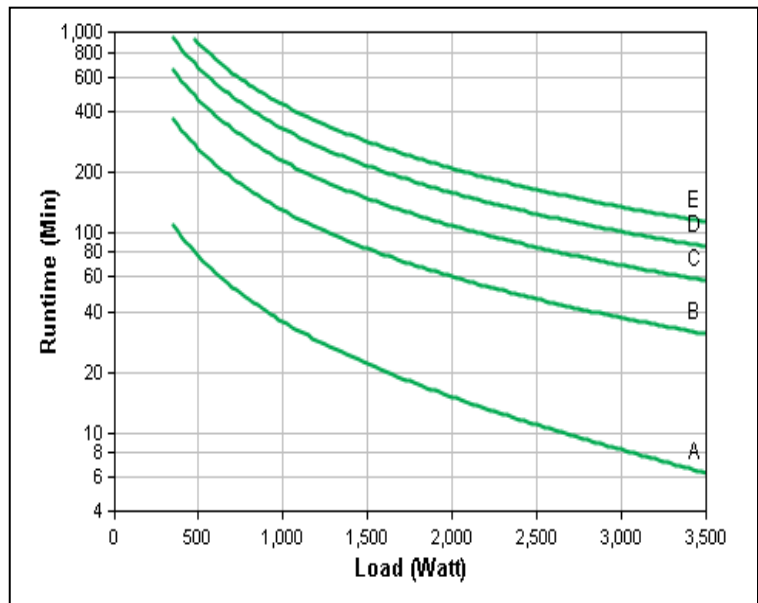
APC Smart-UPS RT 5000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|--------------------------------------|
| A | SURTD5000RMXLI |
| B | SURTD5000RMXLI + (1)SURT192RMXLBP |
| C | SURTD5000RMXLI + (2)SURT192RMXLBP |
| D | SURTD5000RMXLI + (3)SURT192RMXLBP |
| E | SURTD5000RMXLI + (4)SURT192RMXLBP |



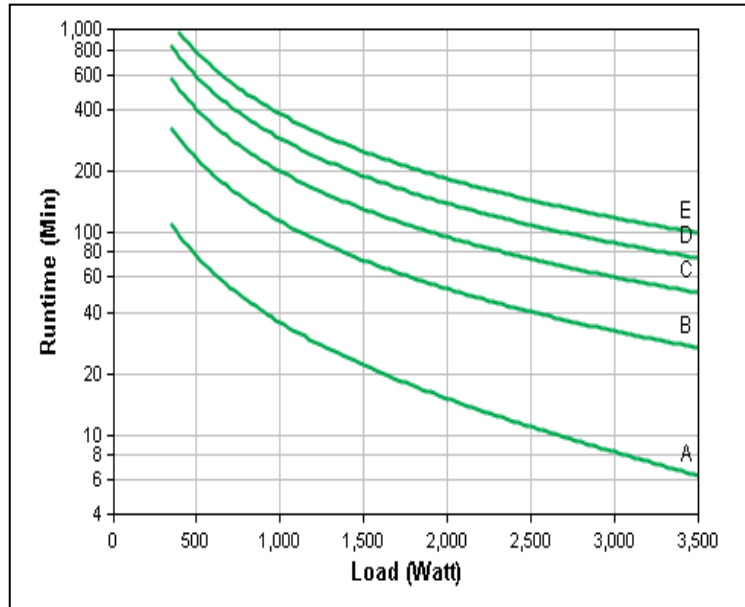
APC Smart-UPS RT 5000 VA 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|----------------------------------|
| A | SURTD5000XLI |
| B | SURTD5000XLI + (1)SURT192XLBP |
| C | SURTD5000XLI + (2)SURT192XLBP |
| D | SURTD5000XLI + (3)SURT192XLBP |
| E | SURTD5000XLI + (4)SURT192XLBP |



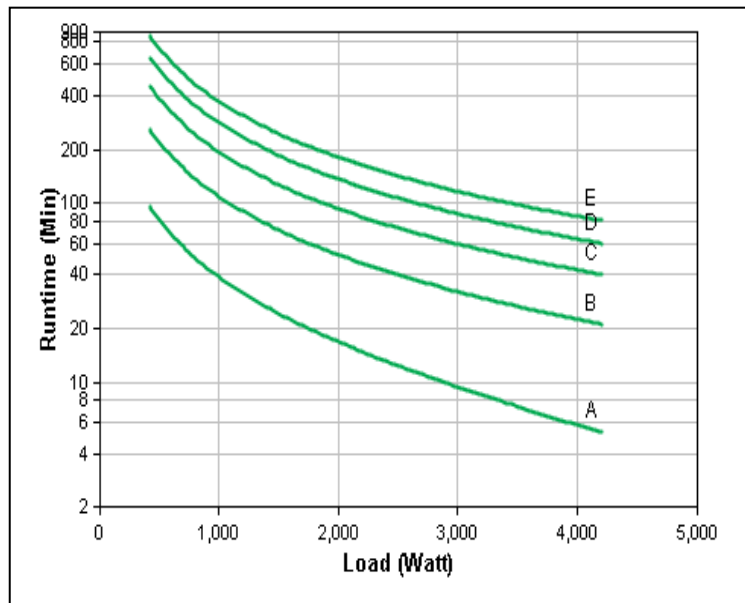
APC Smart-UPS RT 5000 VA 230 V with Pre-installed Input/Output Hardwire Kit, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-------------------------------------|
| A | SURTD5000XLI-ET |
| B | SURTD5000XLI-ET + (1)SURT192XLBP |
| C | SURTD5000XLI-ET + (2)SURT192XLBP |
| D | SURTD5000XLI-ET + (3)SURT192XLBP |
| E | SURTD5000XLI-ET + (4)SURT192XLBP |



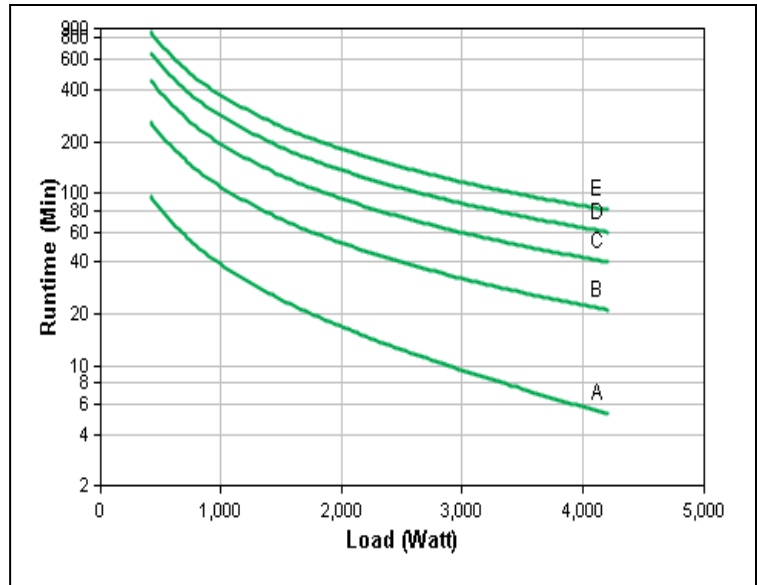
APC Smart-UPS RT 6000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-------------------------------------|
| A | SURT6000RMXLI |
| B | SURT6000RMXLI + (1)SURT192RMXLBP |
| C | SURT6000RMXLI + (2)SURT192RMXLBP |
| D | SURT6000RMXLI + (3)SURT192RMXLBP |
| E | SURT6000RMXLI + (4)SURT192RMXLBP |



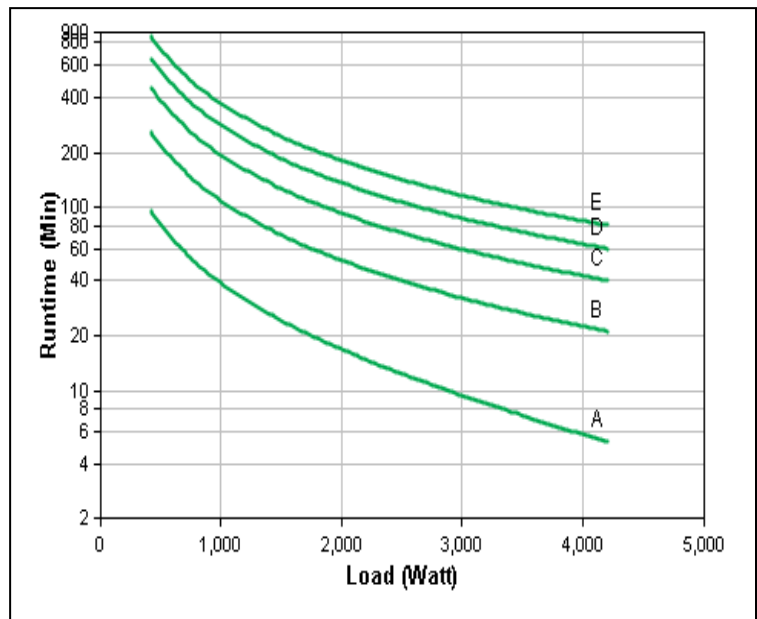
APC Smart-UPS RT 6000 VA 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|---------------------------------|
| A | SURT6000XLI |
| B | SURT6000XLI + (1)SURT192XLBP |
| C | SURT6000XLI + (2)SURT192XLBP |
| D | SURT6000XLI + (3)SURT192XLBP |
| E | SURT6000XLI + (4)SURT192XLBP |



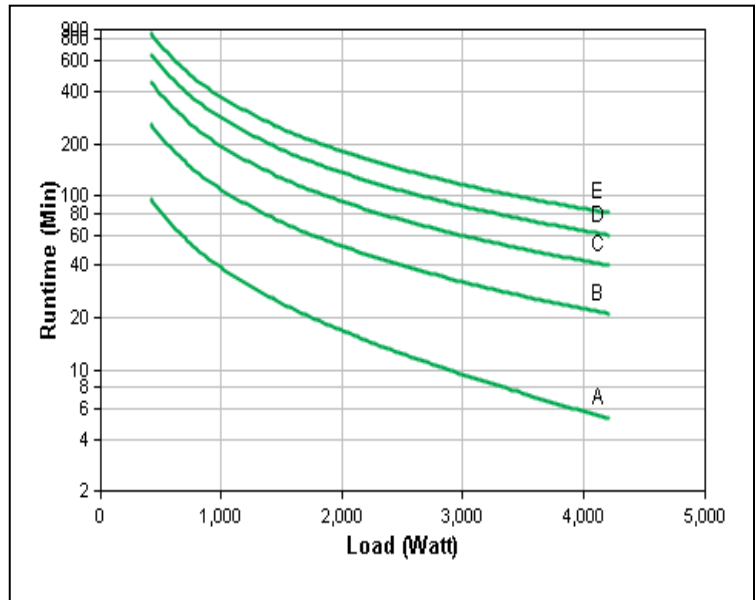
APC Smart-UPS RT 6000 VA, 230 V with Pre-installed Input/Output Hardwire Kit, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|------------------------------------|
| A | SURT6000XLI-ET |
| B | SURT6000XLI-ET + (1)SURT192XLBP |
| C | SURT6000XLI-ET + (2)SURT192XLBP |
| D | SURT6000XLI-ET + (3)SURT192XLBP |
| E | SURT6000XLI-ET + (4)SURT192XLBP |



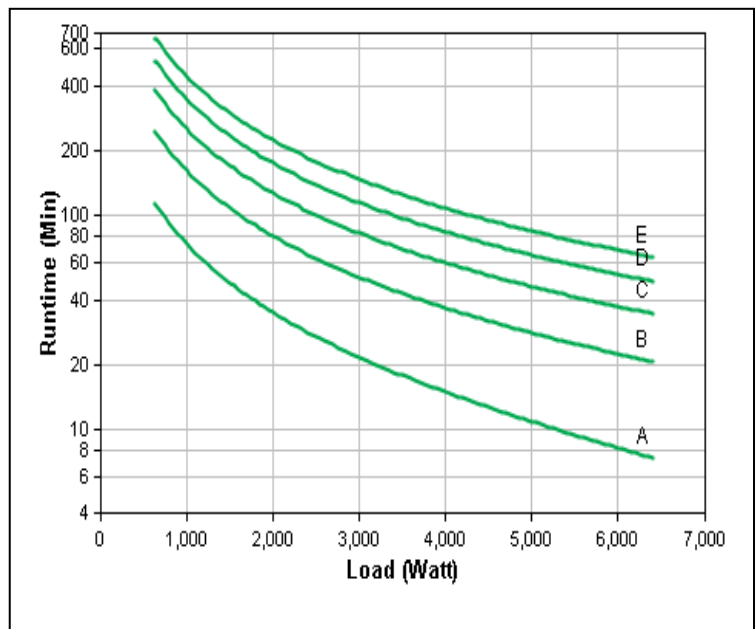
APC Smart-UPS RT 6000 VA 230 V – Marine, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|----------------------------------|
| A | SURT6000XLIM |
| B | SURT6000XLIM + (1)SURT192XLBP |
| C | SURT6000XLIM + (2)SURT192XLBP |
| D | SURT6000XLIM + (3)SURT192XLBP |
| E | SURT6000XLIM + (4)SURT192XLBP |



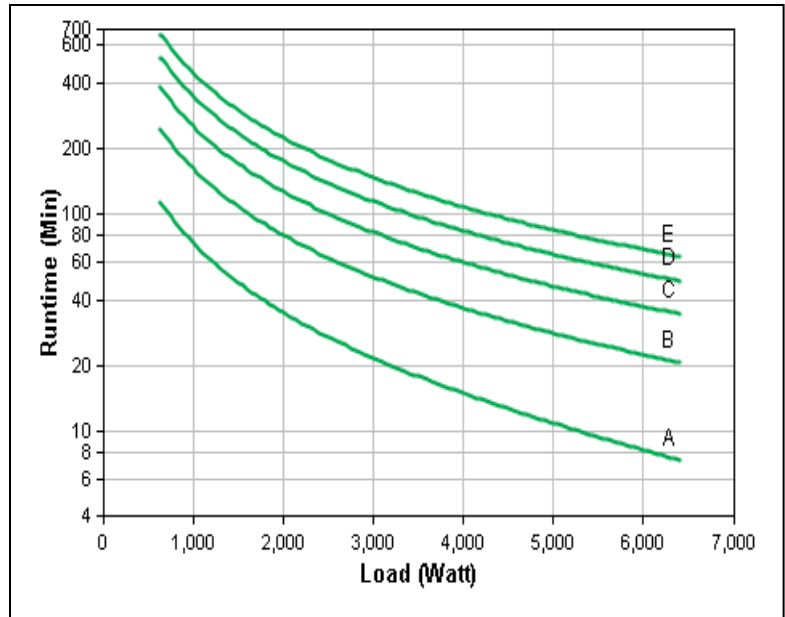
APC Smart-UPS RT 8000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-------------------------------------|
| A | SURT8000RMXLI |
| B | SURT8000RMXLI + (1)SURT192RMXLBP |
| C | SURT8000RMXLI + (2)SURT192RMXLBP |
| D | SURT8000RMXLI + (3)SURT192RMXLBP |
| E | SURT8000RMXLI + (4)SURT192RMXLBP |



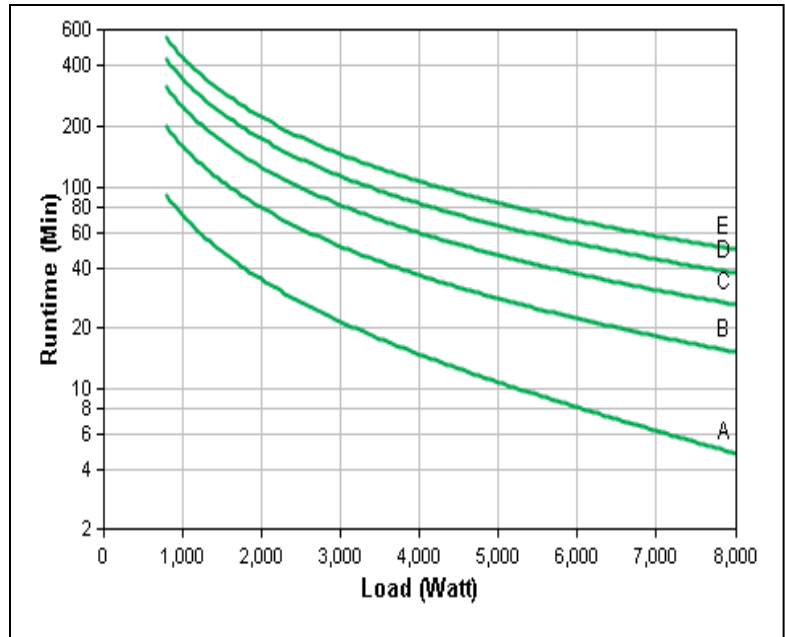
APC Smart-UPS RT 8000 VA 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|---------------------------------|
| A | SURT8000XLI |
| B | SURT8000XLI + (1)SURT192XLBP |
| C | SURT8000XLI + (2)SURT192XLBP |
| D | SURT8000XLI + (3)SURT192XLBP |
| E | SURT8000XLI + (4)SURT192XLBP |



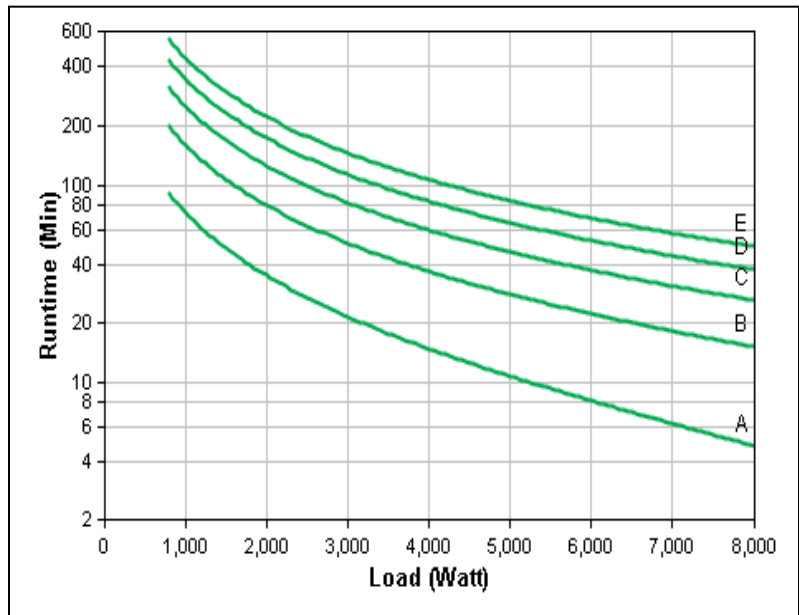
APC Smart-UPS RT 10,000 VA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|--------------------------------------|
| A | SURT10000RMXLI |
| B | SURT10000RMXLI + (1)SURT192RMXLBP |
| C | SURT10000RMXLI + (2)SURT192RMXLBP |
| D | SURT10000RMXLI + (3)SURT192RMXLBP |
| E | SURT10000RMXLI + (4)SURT192RMXLBP |



APC Smart-UPS RT 10,000 VA 230 V, Battery Run-Times (minutes):

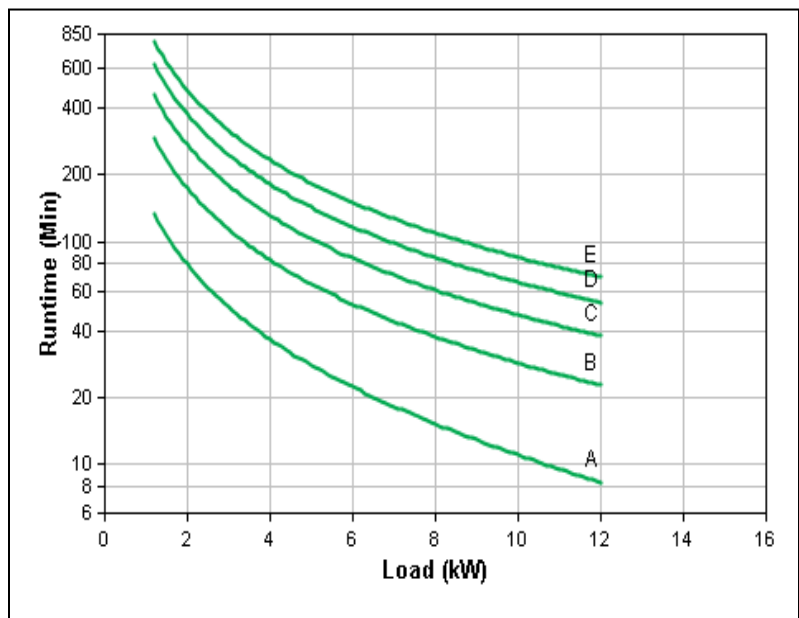
| Curve | Part number(s) |
|-------|----------------------------------|
| A | SURT10000XLI |
| B | SURT10000XLI + (1)SURT192XLBP |
| C | SURT10000XLI + (2)SURT192XLBP |
| D | SURT10000XLI + (3)SURT192XLBP |
| E | SURT10000XLI + (4)SURT192XLBP |



Models with 230 V Output / 230 V, 400 V 3-Phase Input

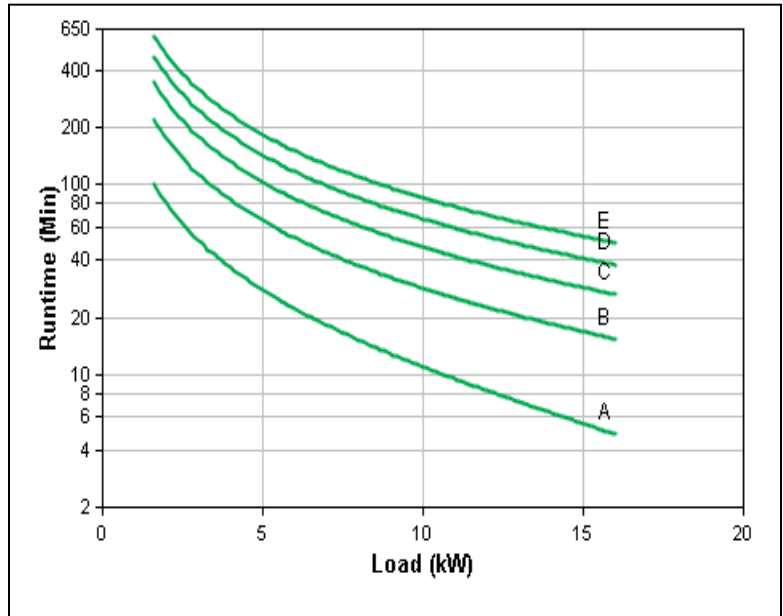
APC Smart-UPS RT 15 kVA RM 230V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-------------------------------------|
| A | SURT15KRMXLI |
| B | SURT15KRMXLI + (1)SURT192RMXLBP2 |
| C | SURT15KRMXLI + (2)SURT192RMXLBP2 |
| D | SURT15KRMXLI + (3)SURT192RMXLBP2 |
| E | SURT15KRMXLI + (4)SURT192RMXLBP2 |



APC Smart-UPS RT 20 kVA RM 230 V, Battery Run-Times (minutes):

| Curve | Part number(s) |
|-------|-------------------------------------|
| A | SURT20KRMXLI |
| B | SURT20KRMXLI + (1)SURT192RMXLBP2 |
| C | SURT20KRMXLI + (2)SURT192RMXLBP2 |
| D | SURT20KRMXLI + (3)SURT192RMXLBP2 |
| E | SURT20KRMXLI + (4)SURT192RMXLBP2 |



Battery Specifications

| UPS VA | 1000 | 2000 | 2200 | 3000 | 5000 | 6000 | 8000 | 10,000 | 15,000 | 20,000 |
|--|---|--------|-----------|------|------|-----------|------|----------------------|--------|--------|
| Type | Maintenance-free valve-regulated lead-acid battery with suspended electrolyte, leak-proof | | | | | | | | | |
| Replacement Battery | RBC31 | | RBC44 | | | | | | | |
| Included Replacement Battery Cartridges | 1 | | | | 2 | | | 4 | | |
| Hot-Swappable | Yes | | | | | | | | | |
| User-Replaceable | Yes | | | | | | | | | |
| Battery Voltage, Vdc | 48 | | 192 | | | +/- 192 | | | | |
| Battery Amp-Hour Capacity | 9 Ah | | 5.1 Ah | | | | | | | |
| Battery Charger Power | 100 W | | 400 W | | | 800 W | | Variable, up to 3 kW | | |
| Recharge Time 0% to 90% | 3 hrs. | 4 hrs. | 2.5 hours | | | 2.2 hours | | 2.5 hours | | |
| Automatic Self-Test | At turn-on, every 7 days, or every 14 days (user-selectable) | | | | | | | | | |
| Typical Battery Life | 3 to 5 years | | | | | | | | | |
| Extended Runtime Option | Yes | | | | | | | | | |

Battery Material Safety Data Sheet



Note: For Material Safety Data Sheet (MSDS), go to http://nam-en.apc.com/app/answers/detail/a_id/564/kw/msds.

Compliance

Model Categories

Models with 230 V Output / 230 V Input

| Model | SKU | Regulatory Approvals |
|---|-----------------|---|
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | C-tick, CE, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2, GOST, VDE |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | |
| APC Smart-UPS RT 8000 VA 230 V | SURT8000XLI | |
| APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI | |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | CE, DNV ¹ , EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2 |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | |
| APC Smart-UPS RT 3000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURT3000XLI-ET | BSMI, C-tick, CE, CSA, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2, GOST, JEON, UL 1778, VCCI, VDE |
| APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI | |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | C-tick, CE, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2, GOST, UL 1778, VDE |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | |
| APC Smart-UPS RT 5000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURTD5000XLI-ET | C-tick, CE, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2, GOST, VDE |
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | |
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | C-tick, CE, CSA, EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2, GOST, UL Listed, VDE |
| APC Smart-UPS RT 6000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | |
| APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM | CE, DNV ² , EN 50091-1, EN 50091-2, EN 55022 Class A, EN 60950, EN 61000-3-2 |
| APC Smart-UPS RT 10,000 VA RM 230 V | SURT10000RMXLI | |
| <p>¹ For compliance with DNV certification, the Smart-UPS On-Line marine models SURT1000XLIM, SURTD2200XLIM, and SURTD3000XLIM must be used with the APC 3000 VA Filter – Marine (SURT023M).</p> <p>² For compliance with DNV certification, the Smart-UPS On-Line marine model SURTD6000XLIM must be used with the APC 6000 VA Filter – Marine (SURT024M).</p> | | |



Note: In addition to the preceding regulatory approvals, the APC Smart-UPS RT 3000 VA RM 230 V model (SURTD3000RMXLI) and the APC Smart-UPS RT 5000 VA RM 230 V model (SURTD5000RMXLI) have OSHPD pre-approval when used in any of the following APC NetShelter™ enclosures:

- APC NetShelter SX 42 U Enclosure (Commercial), AR3100SP1
- APC NetShelter VX Seismic 42 U Enclosure (Seismic), AR3100SP1
- APC NetShelter 2-Post Rack 45 U (Commercial), AR201


Models with 230 V, 400 V 3-Phase Output / 230 V, 400 V 3-Phase Input

| Model | SKU | Regulatory Approvals |
|----------------------------------|--------------|---|
| APC Smart-UPS RT 15 kVA RM 230 V | SURT15KRMXLI | BSMI, EN/IEC 62040-2, EN/IEC 62040-1-1, VDE |
| APC Smart-UPS RT 20 kVA RM 230 V | SURT20KRMXLI | BSMI, EN/IEC 62040-2, EN/IEC 62040-1-1, VDE |

Facility Planning

Specifications for Installations

AC Input


| Input Voltage and Connections Specifications | | | | | | | | | | | |
|---|--|-------|--------|----------------------------------|------|---|---|---|--|--------|--|
| UPS VA | 1000 | 2000 | 2200 | 3000 | 5000 | 6000 | 8000 | 10,000 | 15,000 | 20,000 | |
| Input Frequency (Hz) | 45-65 Hz (auto-sensing) | | | | | | | 40-70 Hz (auto-sensing) | | | |
| Nominal Input Voltage | 230 V | | | | | 230 V or 400 V | | | | | |
| Current Full Load (Nominal) | 3.5 A | 6.8 A | 10.5 A | 16.5 A | 20A | 1PH: 40 A; 3PH: 15 A/phase when online, 40 A on L1 (in bypass only) | 1PH: 50 A; 3PH: 18 A/phase when online, 50 A on L1 (in bypass only) | 1:1: 83 A; 3:1: 83 A (in bypass only); 3:3: 28 A each phase | 1:1: 105 A; 3:1: 105 A (in bypass only); 3:3: 35 A each phase | | |
| Bypass | Automatic and Manual (Built-In) | | | | | | | | | | |
| Input Connections* | British BS1363A; IEC-320 C20; Schuko CEE 7/EU1-16P | | | Hard Wire 3-wire (1PH+N+G) | | Hard Wire 3-wire (1PH+N+G); Hard Wire 5-wire (3PH+ N+G) | | | | | |
| Wire Size (Typical)** | Not applicable | | | 6 mm ² | | 10 mm ² | 16 mm ² | 1:1 and 3:1: 35 mm ² , 3:3: 6 mm ² | 1:1 and 3:1: 50 mm ² , 3:3: 10 mm ² | | |
| External Input Circuit Breaker (Typical)*** | 10 A | 16 A | | 32 A | | 1PH: 50 A/ 2-pole; 3PH: 50 A/4-pole | 1PH: 63 A/ 2-pole; 3PH: 63 A/4-pole | 1:1 and 3:1: 100 A each phase; 3:3: 35 A or 40 A each phase | 1:1 and 3:1: 125 A each phase; 3:3: 50 A each phase | | |
| <p>* Wire connection "G" represents protective earth ground. </p> <p>** Recommended wire sizes are typical. Actual wire size must comply with local and national electrical codes. Note: For units configured for 3-phase input and single-phase output operation, the entire load connected to the UPS will transfer to L1 and Neutral of the 3-phase input when the UPS is operating in bypass mode.</p> <p>*** The notation 1:1 refers to a UPS configured for single-phase AC input and output, the notation 3:1 refers to a UPS configured for 3-phase input and single-phase output, and the notation 3:3 refers to a UPS configured for 3-phase input and 3-phase output.</p> | | | | | | | | | | | |

AC Input (continued)

| Model | SKU | Input Voltage Range for Main Operation ¹ |
|--|-----------------|---|
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | 160 V to 280 V |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | |
| APC Smart-UPS RT 3000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT3000XLI-ET | |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | |
| APC Smart-UPS RT 3000 VA | SURTD3000XLI | |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | |
| APC Smart-UPS RT 5000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURTD5000XLI-ET | |
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | |
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | |
| APC Smart-UPS RT 6000 VA 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | 160 V to 280 V or 3-phase: 277 V to 485 V |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | |
| APC Smart-UPS RT 8000 VA 230 V | SURT8000XLI | |
| APC Smart-UPS RT 10,000 VA RM 230 V | SURT10000RMXLI | |
| APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI | |
| APC Smart-UPS RT 15 kVA RM 230 V | SURT15KRMXLI | |
| APC Smart-UPS RT 20 kVA RM 230 V | SURT20KRMXLI | 180 V to 280 V |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | 180 V to 270V |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | |
| APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM | |

¹ These voltage ranges are for operation at full load. At half load, the UPS will run at voltage levels down to 100V, but will neither start up nor charge the battery at this level. Therefore, do not attempt to run the unit at input voltages below these ranges. For example, do not attempt to use a 110 V input supply for 230 V output even at a reduced load.

AC Output

| Output Specifications | | | | | | | | | | |
|--|---|----------------------------------|--------|--------|--------|--------|--|--------|---|--------|
| UPS VA | 1000 | 2000 | 2200 | 3000 | 5000 | 6000 | 8000 | 10,000 | 15,000 | 20,000 |
| Nominal Output Voltage | Configurable for 220, 230, or 240 V | | | | | | | | Configurable for 220, 230, 240, 380, 400, 415 V | |
| Output Frequency (sync to mains) | 50/60 Hz +/- 3 Hz user-adjustable +/- 0.1 | | | | | | | | | |
| Output Voltage Distortion | < 3.0% | | | | | | | | < 5.0% | |
| Crest Factor | 3:1 | | | | | | | | | |
| Waveform Type | Sine wave | | | | | | | | | |
| Output Power Capacity | 700W | 1400 W | 1540 W | 2100 W | 3500 W | 4200 W | 6400 W | 8000 W | 12 kW | 16 kW |
| Output Overload Rating ¹ | For online operation: At overload of 105% - infinite; at overload of 125% - 1 minute; at overload of 150% - 30 seconds. | | | | | | | | | |
| Output Connections ² | (6) IEC 320 C13 | (8) IEC 320 C13; (2) IEC 320 C19 | | | | | (1) Hard Wire 3-wire (H N + G); (4) IEC 320 C13; (4) IEC 320 C19 | | (1) Hard Wire 3-wire (H N + G); (1) Hard Wire 5-wire (3PH + N + G); (8) IEC 320 C19 | |
| ¹ When the UPS is in bypass mode, overload is limited by the external input circuit breaker that feeds the UPS. ² Wire connection "G" represents protective earth ground.  | | | | | | | | | | |

Configuration and Management

Network Management Card 2

Smart-UPS On-Line models, 5kVA and higher, have the Network Management Card 2 with Environmental Monitoring pre-installed. This management card enables you to monitor and control an individual UPS remotely over your network.

See the *User's Guide, UPS Network Management Card 2, AP9630, AP9631* for information on how to use this management card. To obtain the latest version of this documentation:

1. Go to www.apc.com/site/products/index.cfm.
2. Click on **Uninterruptible Power Supply (UPS)**.
3. Under **UPS Management**, click on **UPS Network Management Cards**.
4. Click on **UPS Network Management Card 2 with Environmental Monitoring**.
5. Click on the **Documentation** tab.
6. Download the *UPS Network Management Card 2 - User's Guide* for the latest firmware release.

Emergency Power Off (EPO)

For 3 kVA to 20 kVA Smart-UPS On-Line models, you can connect the UPS to a central EPO switch by means of a cable from the EPO Terminal on the UPS. The system power can be disabled in an emergency by closing the switch connected to the EPO.



Note: Refer to local and national electrical codes when wiring the EPO.

The switch should be connected in a normally open switch contact. External voltage is not required; the switch is driven by 24 V internal supply. In closed condition, 4 mA of current are drawn. The EPO switch is internally powered by the UPS for use with non-powered switch circuit breakers.

The EPO circuit is considered a Class 2 circuit, (UL, CSA standards) and an SELV circuit (IEC standard). Both Class 2 and SELV circuits the EPO terminal block unless it can be confirmed that must be isolated from all primary circuitry. Do not connect any circuit to the circuit is Class 2 or SELV. If circuit standard cannot be confirmed, use a contact closure switch.

To obtain the latest versions of documentation pertaining to circuit breaker requirements and requirements for isolated circuitry for a central EPO switch:

1. Go to www.apc.com/site/products/index.cfm.
2. Click on **Uninterruptible Power Supply (UPS)**
3. Under the **Network and Server** category, click on **Smart-UPS On-Line**.
4. On the Smart-UPS On-Line products page, click on a Smart-UPS On-Line model name.
5. Download the User Manual (which also documents installation) for your Smart-UPS On-Line model

You need one of the following types of cable to connect the UPS to the EPO switch:

- CL2: Class 2 cable for general use
- CL2P: Plenum cable for use in ducts, plenums, and other spaces used for environmental air.
- CL2R: Riser cable for use in a vertical run in a floor to floor shaft.
- CLEX: Limited use cable for use in dwellings and for use in raceways.

Physical

Weights and Dimensions

| UPS Cabinet | SKU | U-Space in Rack | Weight in kg | Height in mm | Width in mm | Depth in mm |
|---|-----------------|--------------------|-----------------|-----------------|----------------|----------------|
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | 2 U | 23.0 | 85 | 432 | 483 |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | 2 U | 23.0 | 432 | 85 | 483 |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | 2 U | 23.0 | 432 | 85 | 483 |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | 2 U | 25.0 | 85 | 432 | 483 |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | 2 U | 25.0 | 432 | 85 | 483 |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 3000 VA 230 V with Pre- installed Input/Output Hardwire Kit | SURT3000XLI-ET | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | 3 U | 54.6 | 130 | 432 | 660 |
| APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | 3 U | 54.6 | 130 | 432 | 660 |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 5000 VA 230 V with Pre- installed Input/Output Hardwire Kit | SURTD5000XLI-ET | 3 U | 54.6 | 432 | 130 | 660 |

Weights and Dimensions (continued)

| UPS Cabinet | SKU | U-Space in Rack | Weight in kg | Height in mm | Width in mm | Depth in mm |
|--|----------------|--------------------|-----------------|-----------------|----------------|----------------|
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | 3 U | 54.6 | 130 | 432 | 660 |
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 6000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM | 3 U | 54.6 | 432 | 130 | 660 |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | 6 U | 110.9 | 263 | 432 | 736 |
| APC Smart-UPS RT 8000 VA 230 V | SURT8000XLI | 6 U | 110.9 | 432 | 263 | 736 |
| APC Smart-UPS RT 10,000 VA RM 230 V | SURT10000RMXLI | 6 U | 110.9 | 263 | 432 | 736 |
| APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI | 6 U | 110.9 | 432 | 263 | 736 |
| APC Smart-UPS RT 15kVA RM 230 V | SURT15KRMXLI | 12 U | 247.73 | 553 | 432 | 773 |
| APC Smart-UPS RT 20kVA RM 230 V | SURT20KRMXLI | 12 U | 247.73 | 553 | 432 | 773 |

Shipping Weights and Dimensions

| UPS Cabinet | SKU | Weight in kg | Height in mm | Width in mm | Depth in mm |
|--|-----------------|-----------------|-----------------|----------------|----------------|
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | 27.8 | 286 | 630 | 594 |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | 27.8 | 286 | 630 | 594 |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | 27.8 | 286 | 630 | 594 |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | 29.8 | 286 | 630 | 594 |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | 29.8 | 286 | 630 | 594 |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 3000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT3000XLI-ET | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 5000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURTD5000XLI-ET | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | 63.6 | 347 | 603 | 980 |

Shipping Weights and Dimensions (continued)

| UPS Cabinet | SKU | Weight in kg | Height in mm | Width in mm | Depth in mm |
|--|----------------|-------------------------|-------------------------|------------------------|------------------------|
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 6000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM | 63.6 | 347 | 603 | 980 |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | 129.1 | 552 | 597 | 991 |
| APC Smart-UPS RT 8000 VA 230 V | SURT8000XLI | 129.1 | 552 | 597 | 991 |
| APC Smart-UPS RT 10,000 VA RM 230 V | SURT10000RMXLI | 129.1 | 552 | 597 | 991 |
| APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI | 129.1 | 552 | 597 | 991 |
| APC Smart-UPS RT 15kVA RM 230 V | SURT15KRMXLI | 314.1 | 990 | 610 | 1003 |
| APC Smart-UPS RT 20kVA RM 230 V | SURT20KRMXLI | 314.2 | 990 | 610 | 1003 |

Environmental

Requirements for Operation and Storage

| Model | Operating Relative Humidity | Storage Relative Humidity | Maximum Operating Altitude | Maximum Storage Altitude |
|------------------------------|-----------------------------|---------------------------|----------------------------|--------------------------|
| All Smart-UPS On-line Models | 0 to 95% | 0 to 95% | 3000 meters | 15,000 meters |

| Model | SKU | Ambient Temperature | | Audible noise at 1 m from surface of unit |
|--|-----------------|-------------------------|--------------|---|
| | | Operating | Storage | |
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | 0 to 40 °C | -20 to 50 °C | 50 dBA |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | | | |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | | | |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | | | |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | 0 to 55 °C ¹ | | |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | | | |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | | | |
| APC Smart-UPS RT 6000 VA 230 V – Marine | SURT6000XLIM | | | |
| APC Smart-UPS RT 3000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT3000XLI-ET | 0 to 40 °C | -15 to 45 °C | 55 dBA |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | | | |
| APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI | | | |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | | | |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | | | |
| APC Smart-UPS RT 5000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURTD5000XLI-ET | | | |
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | | | |
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | | | |
| APC Smart-UPS RT 6000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | | | |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | | | |
| APC Smart-UPS RT 8000VA 230 V | SURT8000XLI | | | |
| APC Smart-UPS RT 10,000VA RM 230 V | SURT10000RMXLI | | | |
| APC Smart-UPS RT 10,000 VA 230 V | SURT10000XLI | | | |
| APC Smart-UPS RT 15 kVA RM 230 V | SURT15KRMXLI | | | |
| APC Smart-UPS RT 20 kVA RM 230 V | SURT20KRMXLI | | | 59 dBA |

¹ For the marine models at operating temperatures above 40°C, the output power must be de-rated at 2.5%/°C.

Heat Dissipation

| Online Thermal Dissipation | | |
|--|-----------------|--------------|
| Model | SKU | BTUs per hr. |
| APC Smart-UPS RT 1000 VA RM 230 V | SURT1000RMXLI | 324 |
| APC Smart-UPS RT 1000 VA 230 V | SURT1000XLI | 324 |
| APC Smart-UPS RT 1000 VA 230 V – Marine | SURT1000XLIM | 324 |
| APC Smart-UPS RT 2000 VA RM 230 V | SURT2000RMXLI | 543 |
| APC Smart-UPS RT 2000 VA 230 V | SURT2000XLI | 543 |
| APC Smart-UPS RT 2200 VA 230 V – Marine | SURTD2200XLIM | 609 |
| APC Smart-UPS RT 3000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT3000XLI-ET | 609 |
| APC Smart-UPS RT 3000 VA RM 230 V | SURTD3000RMXLI | 609 |
| APC Smart-UPS RT 3000 VA 230 V | SURTD3000XLI | 609 |
| APC Smart-UPS RT 3000 VA 230 V – Marine | SURTD3000XLIM | 609 |
| APC Smart-UPS RT 5000 VA RM 230 V | SURTD5000RMXLI | 1057 |
| APC Smart-UPS RT 5000 VA 230 V | SURTD5000XLI | 1057 |
| APC Smart-UPS RT 5000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURTD5000XLI-ET | 1057 |
| APC Smart-UPS RT 6000 VA RM 230 V | SURT6000RMXLI | 1221 |
| APC Smart-UPS RT 6000 VA 230 V | SURT6000XLI | 1221 |
| APC Smart-UPS RT 6000 VA, 230 V with Pre-installed Input/Output Hardwire Kit | SURT6000XLI-ET | 1221 |
| APC Smart-UPS RT 6000VA 230 V – Marine | SURT6000XLIM | 1221 |
| APC Smart-UPS RT 8000 VA RM 230 V | SURT8000RMXLI | 1603 |
| APC Smart-UPS RT 8000VA 230 V | SURT8000XLI | 1603 |
| APC Smart-UPS RT 10,000VA RM 230 V | SURT10000RMXLI | 2262 |
| APC Smart-UPS RT 10,000VA 230 V | SURT10000XLI | 2262 |
| APC Smart-UPS RT 15kVA RM 230 V | SURT15KRMXLI | 2800 |
| APC Smart-UPS RT 20kVA RM 230 V | SURT20KRMXLI | 3770 |

Options

Hardware Options

Smart-UPS On-Line Battery Systems

| | |
|---|----------------|
| APC Smart-UPS RT 48 V Battery Pack | SURT48XLBP |
| APC Smart-UPS RT 48 V RM Battery Pack | SURT48RMXLBP |
| APC Smart-UPS RT 192 V Battery Pack | SURT192XLBP |
| APC Smart-UPS RT 192 V RM Battery Pack | SURT192RMXLBP |
| APC Smart-UPS RT 192 V RM Battery Pack 2 Rows | SURT192RMXLBP2 |
| APC Replacement Battery Cartridge #31 (replacement battery) | RBC31 |
| APC Replacement Battery Cartridge #44 (replacement battery) | RBC44 |

| UPS VA | 1000 | 2000 | 2200 | 3000 | 5000 | 6000 | 8000 | 10,000 | 15,000 | 20,000 |
|--|----------------------------|------|------------------------------|------|------|------|------|--------|----------------|--------|
| Extendable Runtime Unit | SURT48XLBP or SURT48RMXLBP | | SURT192XLBP or SURT192RMXLBP | | | | | | SURT192RMXLBP2 | |
| Replacement Battery Cartridge (RBC) | RBC31 | | RBC 44 | | | | | | | |

UPS Network Management Cards

UPS Network Management Card 2 with Environmental Monitoring AP9631

UPS Network Management Card with Environmental Monitoring and Out-of-Band Management AP9618

UPS Network Management Card 2 AP9630

| Smart-UPS On-Line Compatibility | UPS Network Management Card 2 with Environmental Monitoring | UPS Network Management Card with Environmental Monitoring and Out of Band Management | UPS Network Management Card 2 |
|---------------------------------|---|--|-------------------------------|
| SKU | AP9631 | AP9618 | AP9630 |
| SURT1000XLI | Compatible | Compatible | Compatible |
| SURT1000RMXLI | Compatible | Compatible | Compatible |
| SURT1000XLIM | Compatible | Compatible | Compatible |
| SURT2000XLI | Compatible | Compatible | Compatible |
| SURT2000RMXLI | Compatible | Compatible | Compatible |
| SURTD2200XLIM | Compatible | Compatible | Compatible |
| SURT3000XLI-ET | Compatible | Compatible | Compatible |
| SURTD3000XLI | Compatible | Compatible | Compatible |
| SURTD3000RMXLI | Compatible | Compatible | Compatible |
| SURTD3000XLIM | Compatible | Compatible | Compatible |
| SURTD5000XLI-ET | Compatible | Compatible | Compatible |
| SURTD5000XLI | Pre-installed | Compatible | Compatible |
| SURTD5000RMXLI | Pre-installed | Compatible | Compatible |
| SURT6000XLI | Pre-installed | Compatible | Compatible |
| SURT6000XLI-ET | Compatible | Compatible | Compatible |
| SURT6000RMXLI | Pre-installed | Compatible | Compatible |
| SURT6000XLIM | Compatible | Compatible | Compatible |
| SURT8000XLI | Pre-installed | Compatible | Compatible |
| SURT8000RMXLI | Pre-installed | Compatible | Compatible |
| SURT10000XLI | Pre-installed | Compatible | Compatible |
| SURT10000RMXLI | Pre-installed | Compatible | Compatible |
| SURT15KRMXLI | Pre-installed | Compatible | Compatible |
| SURT20KRMXLI | Pre-installed | Compatible | Compatible |

Additional Management Cards and Options

| | |
|---|-----------|
| Legacy Communications SmartSlot Card | AP9620 |
| Relay I/O SmartSlot Card | AP9610 |
| Interface Expander with 2 UPS Communication Cables SmartSlot Card | AP9607CB |
| SmartSlot Expansion Chassis | AP9600 |
| APC SmartSlot Triple Chassis Black | AP9604BLK |
| Out-of-Band Management SmartSlot Card | AP9608 |

| Smart-UPS On-Line Compatibility | Legacy Communications Smart-Slot Card | Relay I/O Smart-Slot Card | Interface Expander with 2 UPS Communication Cables SmartSlot Card | SmartSlot Expansion Chassis | APC SmartSlot Triple Chassis Black | Out-of-Band Management SmartSlot Card |
|---------------------------------|---------------------------------------|---------------------------|---|-----------------------------|------------------------------------|---------------------------------------|
| SKU | AP9620 | AP9610 | AP9607CB | AP9600 | AP9604BLK | AP9608 |
| SURT1000XLI | not compatible | compatible | | | | |
| SURT1000RMXLI | not compatible | compatible | | | | |
| SURT1000XLIM | not compatible | compatible | | | | |
| SURT2000XLI | not compatible | compatible | | | | |
| SURT2000RMXLI | not compatible | compatible | | | | |
| SURTD2200XLIM | compatible | not compatible | | | | |
| SURT3000XLI-ET | not compatible | compatible | | | | |
| SURTD3000XLI | compatible | not compatible | | | | |
| SURTD3000RMXLI | compatible | not compatible | | | | |
| SURTD3000XLIM | compatible | not compatible | | | | |
| SURTD5000XLI-ET | compatible | not compatible | | | | |
| SURTD5000XLI | compatible | not compatible | | | | |
| SURTD5000RMXLI | compatible | not compatible | | | | |
| SURT6000XLI | not compatible | compatible | | | | |
| SURT6000XLI-ET | not compatible | compatible | | | | |
| SURT6000RMXLI | not compatible | compatible | | | | |
| SURT6000XLIM | not compatible | compatible | | | | |
| SURT8000XLI | not compatible | compatible | | | | |
| SURT8000RMXLI | not compatible | compatible | | | | |
| SURT10000XLI | not compatible | compatible | | | | |
| SURT10000RMXLI | not compatible | compatible | | | | |
| SURT15KRMXLI | not compatible | compatible | | | | |
| SURT20KRMXLI | not compatible | compatible | | | | |

Interface and Extension Cables

| | |
|---|----------|
| UPS Communications Cable Simple Signaling | 940-0020 |
| UPS Communication Cable Smart Signaling | 940-0024 |
| UPS Communications Cable Smart Signaling 4.5 m | AP9804 |
| 5m Extension Cable for use with UPS communications cable | AP9815 |
| UNIX Basic Signaling Cable | AP9823 |
| Isolate Serial Extension Cable | AP9825 |
| UPS Extension Cable Isolate 15 m | AP9825I |
| Vendor-specific UPS Communication Cable for IBM AS/400 | 940-0006 |
| Vendor-specific Cisco Unity Express UPS Simple Signaling Cable | AP9840 |
| APC Smart-UPS RT 15 ft Extension Cable for 192Vdc External Battery Packs | SURT008 |
| APC Smart-UPS RT 3.5 m Extension Cable for XLBP2 192 Vdc External Battery Packs | SURT019 |

Mounting Rails

| | |
|---|---------|
| APC Smart-UPS/Smart-UPS RT Two-Post Rail Kit | AP9625 |
| APC Smart-UPS RT 19-inch Rail Kit | SURTRK |
| APC Smart-UPS RT 19-inch Rail Kit for Smart-UPS RT 3/5/6/8/10 kVA | SURTRK2 |
| APC Smart-UPS RT 19-inch Rail Kit for Smart-UPS RT 15 and 20 kVA | SURTRK4 |

| UPS VA | 1000 | 2000 | 2200 | 3000 | 5000 | 6000 | 8000 | 10,000 | 15,000 | 20,000 |
|--------------------------|------------------|------|-------------------|------|------|------|------|--------|---------|--------|
| Optional Rail Kit | AP9625 or SURTRK | | AP9625 or SURTRK2 | | | | | | SURTRK4 | |

Service Bypass Panels/PDUs

| | |
|---|--------------|
| APC Service Bypass PDU, 230 V 10A, BBM, with (6) IEC C13 | SBP1500RMI |
| APC Service Bypass Panel- 100-240 V; 30 A; BBM; Hardwire input/output | SBP3000 |
| APC Service Bypass PDU, 230 V 16 A Hardwire | SBP3000RMHW |
| APC Service Bypass PDU, 230V 16 A, BBM, with (6) IEC C13 and (1) C19 | SBP3000RMI |
| APC Service Bypass Panel- 230 V; 50 A; BBM; IEC 320 C20/Hardwire input; IEC-320 Output- (2) C19 (8) C13 | SBP5000RMI2U |
| APC Service Bypass Panel- 200/208/240 V; 100 A; MBB; Hardwire input/output | SBP16KP |
| APC Service Bypass Panel- 230 V; 100 A; MBB; Hardwire input; IEC 320 output- (8) C13 (2) C19 | SBP10KRMI4U |
| APC Service Bypass Panel- 230 V; 100 A; MBB; Hardwire input; (3) 30 A Hardwire Output | SBP16KRMI4U |
| APC Service Bypass Panel 200/208/230/240 V 125 A; Hardwire input/output | SBP20KP |
| APC Service Bypass Panel 230 V 125 A Hardwire input IEC 320 output (8) C19 | SBP20KRMI4U |

Transformers

| | |
|--|------------|
| APC Smart-UPS RT 3000 VA 230 V Isolation Transformer | SURT001 |
| APC Smart-UPS RT 5000 VA 230 V Isolation Transformer | SURT002 |
| APC WW 10 kVA Isolation Transformer | APTF10KW01 |
| APC WW 20 kVA Isolation Transformer | APTF20KW01 |

| Smart-UPS On-Line Compatibility | APC WW 10 kVA Isolation Transformer | APC WW 20 kVA Isolation Transformer | APC Smart-UPS RT 3000 VA 230 V Isolation Transformer | APC Smart-UPS RT 5000 VA 230 V Isolation Transformer |
|---------------------------------|-------------------------------------|-------------------------------------|--|--|
| SKU | APTF10KW01 | APTF20KW01 | SURT001 | SURT002 |
| SURT1000XLI | ----- | ----- | compatible | ----- |
| SURT1000RMXLI | ----- | ----- | compatible | ----- |
| SURT1000XLIM | ----- | ----- | compatible | ----- |
| SURT2000XLI | ----- | ----- | compatible | ----- |
| SURT2000RMXLI | ----- | ----- | compatible | ----- |
| SURTD2200XLIM | ----- | ----- | compatible | ----- |
| SURT3000XLI-ET | ----- | ----- | ----- | compatible |
| SURTD3000XLI | ----- | ----- | compatible | ----- |
| SURTD3000RMXLI | ----- | ----- | compatible | ----- |
| SURTD3000XLIM | ----- | ----- | compatible | ----- |
| SURTD5000XLI-ET | ----- | ----- | ----- | compatible |
| SURTD5000XLI | ----- | ----- | ----- | compatible when used with SURT007 |
| SURTD5000RMXLI | ----- | ----- | ----- | compatible when used with SURT007 and SURTRK2 |
| SURT6000XLI | ----- | ----- | ----- | ----- |
| SURT6000XLI-ET | ----- | ----- | ----- | ----- |
| SURT6000RMXLI | ----- | ----- | ----- | ----- |
| SURT6000XLIM | ----- | ----- | ----- | ----- |
| SURT8000XLI | compatible | ----- | ----- | ----- |
| SURT8000RMXLI | compatible | ----- | ----- | ----- |
| SURT10000XLI | compatible | compatible | ----- | ----- |
| SURT10000RMXLI | compatible | compatible | ----- | ----- |
| SURT15KRMXLI | ----- | compatible | ----- | ----- |
| SURT20KRMXLI | ----- | compatible | ----- | ----- |

Rack-Mount Transfer Switches

| | |
|--|--------|
| Rack ATS, 10 A, 230 V; 12 A, 208 V, C14 In, (12) C13 Out | AP7721 |
| Rack ATS, 16 A, 230 V, (2) IEC 309 In, (1) IEC 309 Out | AP7722 |

Rack ATS, 20 A, 208 V; 16 A, 230 V, C20 In, (8) C13 (1) C19 Out AP7723

Rack ATS, 2 U 230 V, 32 A, IEC 309-32A In, (16) C13, (2) C19 Out AP7724

Accessories

SURT Equipment Cart SURT013

APC Smart-UPS RT 3/5/6 kVA Input/Output Hardwire Kit SURT007

| Smart-UPS On-Line Compatibility | SURT Equipment Cart | APC Smart-UPS RT 3/5/6 kVA Input/Output Hardwire Kit |
|---------------------------------|---------------------|--|
| SKU | SURTT013 | SURT007 |
| SURT1000XLI | ----- | ----- |
| SURT1000RMXLI | ----- | ----- |
| SURT1000XLIM | ----- | ----- |
| SURT2000XLI | ----- | ----- |
| SURT2000RMXLI | ----- | ----- |
| SURTD2200XLIM | ----- | compatible |
| SURT3000XLI-ET | ----- | pre-installed |
| SURTD3000XLI | ----- | compatible |
| SURTD3000RMXLI | ----- | compatible |
| SURTD3000XLIM | ----- | compatible |
| SURTD5000XLI-ET | ----- | pre-installed |
| SURTD5000XLI | ----- | compatible |
| SURTD5000RMXLI | ----- | compatible |
| SURT6000XLI | ----- | compatible |
| SURT6000XLI-ET | ----- | pre-installed |
| SURT6000RMXLI | ----- | compatible |
| SURT6000XLIM | ----- | compatible |
| SURT8000XLI | compatible | ----- |
| SURT8000RMXLI | ----- | ----- |
| SURT10000XLI | compatible | ----- |
| SURT10000RMXLI | ----- | ----- |
| SURT15KRMXLI | compatible | ----- |
| SURT20KRMXLI | compatible | ----- |

Software Options

PowerChute Business Edition (PCBE) 5 Node SFPCBE901

PowerChute™ Network Shutdown (PCNS) SFPCNS224
 (provided with UPS Network Management Card 2 with Environmental Monitoring (AP9631))

| UPS VA | 1000 | 2000 | 2200 | 3000 | 5000 | 6000 | 8000 | 10,000 | 15,000 | 20,000 |
|----------------------------|------------------|------|------|------|------------------|------|------|--------|--------|--------|
| Compatible Software | SFPCBE901 (PCBE) | | | | SFPCNS224 (PCNS) | | | | | |



Note: All Smart-UPS On-Line Rack-Mount models are also certified for use with StruxureWare™ management software.

StruxureWare Central Basic AP9465

StruxureWare Central Standard AP9470

StruxureWare Central Enterprise AP9475

StruxureWare Central Standard Management Pack AP9480

StruxureWare Central Basic Management Pack AP9482

StruxureWare Central Enterprise Management Pack AP9485

Limited Warranty

American Power Conversion (APC) warrants its products to be free from defects in materials and workmanship for a period of two years from the date of purchase, except in India where the period is one year for battery module(s). Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. To obtain service under warranty you must obtain a Returned Material Authorization (RMA) number from customer support (see Service in the *User Manual* for your Smart-UPS On-Line model). Products must be returned with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

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