



APC Smart-UPS RT 20kVA RM 230V
Part Number: SURT20KRMXLI



[Technical Specifications](#) [Product Overview](#) [Documentation](#) [Software & Firmware](#) [Options](#) [Ratings and Reviews](#)

Output

Output Power Capacity	16 kW / 20 kVA
Max Configurable Power	16 kW / 20 kVA
Nominal Output Voltage	230V
Output Voltage Note	Configurable for 400 or 415V 3 Phase nominal output voltage
Output Voltage Distortion	Less than 5%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	3 : 1
Topology	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(1) Hard Wire 3-wire (H N + G) (1) Hard Wire 5-wire (3PH + N + G) (8) IEC 320 C19 (2) IEC Jumpers
Overload Operation	60 seconds @ 125% and 30 seconds @ 150%
Bypass	Built-in Static Bypass, Internal Bypass (Automatic and Manual), Optional External Bypass



Input

Nominal Input Voltage	230V, 400V 3PH
Input Frequency	40 - 70 Hz (auto sensing)
Input Connections	

Hard Wire 3 wire (1PH+N+G)
Hard Wire 5-wire (3PH + N + G)

Input voltage range for main operations 160 - 280V

Other Input Voltages 220, 240

Maximum Input Current 115A

Input Breaker Capacity 125 A

Input Total Harmonic Distortion Less than 5% for full load

Batteries & Runtime

Battery Type Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof

Included Battery Modules 4

Typical recharge time 2.50 hour(s)

Replacement Battery [RBC44](#)

RBC™ Quantity 4

Nominal Battery Voltage +/-192 V (split battery referenced to neutral)

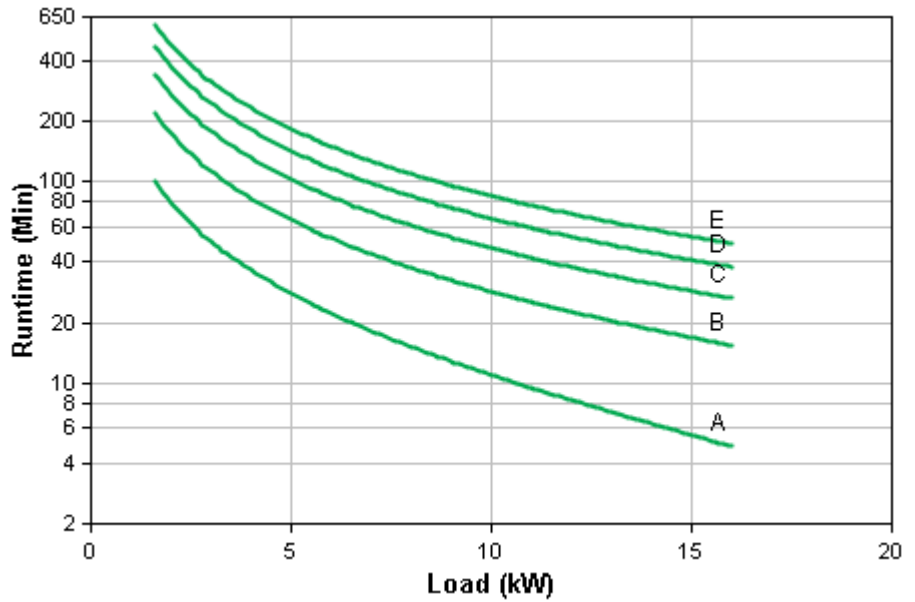
End of Discharge Battery Voltage +/-154 V

Efficiency in Battery Operation 93.00%

Extended Run Options [APC Smart-UPS RT 20kVA RM 230V](#)

Runtime Graph

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



Hover over the line on the graph above to view the runtime at any desired load

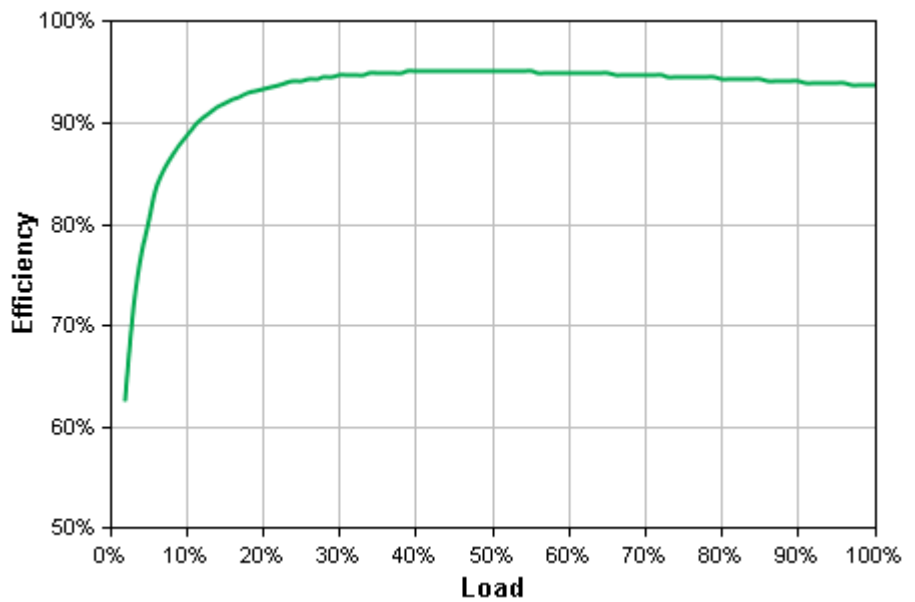
Curve fit to measured runtime data. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

[View Enlarged Graph](#)

[View Runtime Chart](#)

Energy Use/Efficiency

Load	Efficiency
25%	94.2%
50%	95.1%
75%	94.6%
100%	93.7%



Hover over the line on the graph above to view the efficiency at any desired load

Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and balanced resistive load (PF = 1.0) output.

[View Enlarged Graph](#)

Communications & Management

Interface Port(s)	DB-9 RS-232, RJ-45 10/100 Base-T, Smart-Slot
Pre-Installed SmartSlot™ Cards	AP9631
Control panel	Multi-function LCD status and control console
Audible Alarm	Audible and visible alarms : configurable delays
Emergency Power Off (EPO)	Yes

Surge Protection and Filtering

Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449
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Physical

Maximum Height	533.00 mm
Maximum Width	432.00 mm
Maximum Depth	773.00 mm
Rack Height	12U
Net Weight	247.73 KG
Shipping Weight	314.09 KG
Shipping Height	990.00 mm
Shipping Width	610.00 mm
Shipping Depth	1003.00 mm
Color	Black
Units per Pallet	1.00

Environmental

Operating Environment	0 - 40 °C
Operating Relative Humidity	0 - 95% no%
Operating Elevation	0-3000 meters
Storage Temperature	-15 - 45 °C
Storage Relative Humidity	0 - 95% no%
Storage Elevation	0-15000 meters
Audible noise at 1 meter from surface of unit	59.00 dBA
Online Thermal Dissipation	3770.00 BTU/hr
Protection Class	IP 20

Conformance

Regulatory Approvals	BSMI, EN/IEC 62040-2, EN/IEC 62040-1-1, VDE
Standard Warranty	2 years repair or replace

Sustainable Offer Status

RoHS	Compliant
REACH	REACH: Contains No SVHCs
Battery Directive	Compliant

Battery Notes: **The charge to 90% of full battery capacity contains lithium ions. Do not charge using a load rated for 1/2 the full load rating of the UPS.