

Product datasheet

Specifications



Smart-UPS RT, 20, kVA, rackmount, 230V

SURT20KRMXLI

Price: 296,240.00 ZAR

Overview

Presentation	High density, double-conversion on-line power protection with scalable runtime.
Lead time	Usually in Stock

Main

Main Input Voltage	220 V AC 1 phase 230 V AC 1 phase 240 V AC 1 phase 380 V AC 3 phases 400 V AC 3 phases 415 V AC 3 phases
Input voltage	220 V 240 V
Maximum input current	115 A
Input harmonic distortion	Less than 5 % for full load
Cos phi	0.98
Switching current capacity	125 A
Input voltage limits	160...280 V
Input current	115 A (1 phase) 38.3 A per phase (3 phases)
Number of input connectors	1 hard wire 3-wire (1P + N + E) 1 hard wire 5-wire (3P + N + E)
Network frequency	40...70 Hz auto-sensing
Output voltage	220 V AC 1 phase 230 V 1 phase 240 V 1 phase 380 V 3 phases 400 V 3 phases 415 V AC 3 phases
Output voltage	220 V 240 V
Rated power in W	16000 W
rated power in VA	20000 VA
Output connection type	2 IEC Jumpers 8 IEC 60320 C19
Output connector type	Hard wire 3-wire (H N + E) for 1 zone(s) Hard wire 5-wire (3P + N + E) for 1 zone(s)
Bypass type	Built-in static bypass Internal bypass (automatic and manual) Optional external bypass
Crest factor	3 : 1

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Harmonic distortion	Less than 5 %
Maximum configurable power in VA	20000 VA
Maximum configurable power in W	16000 W
Output overload operation	60 seconds at 125% and 30 seconds at 150%
UPS type	Double conversion online
Wave type	Sine wave
Efficiency	93 % (in battery operation)
Output frequency	50/60 Hz +/- 3 Hz user adjustable +/- 0.1 Hz sync to mains

Complementary

Battery type	Lead-acid battery
Additional information	Configurable for 400 or 415 V 3 Phase nominal output voltage
Battery voltage	+/- 192 V (split battery referenced to neutral)
Extended runtime	1
Number of battery filled slots	4
Number of battery free slots	0
Battery recharge time	2.5 h
Number of battery replacement quantity	4
Battery life	3...5 year(s)
Discharge battery voltage	+/- 154 V
Battery charger power	1530 W rated
Battery type	Lead-acid internal included
Emergency power off	Yes
Free slots	0
Preinstalled device	Network management card 2 with environmental monitoring
UPS connectivity	Serial port Pre-installed network management card 3
Noise suppression	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449
Number of rack unit	12U
Colour	Black
Height	533 mm
Width	432 mm
Depth	773 mm
Net weight	247.73 kg
Mounting location	Front
Mounting preference	Lower
Mounting mode	Rack-mounted
Two post mountable	0
USB compatible	No
Mounting mode	Rack-mounted with included kit

Provided equipment	CD with software Rack mounting support rails Smart UPS signalling RS-232 cable User manual Web/SNMP management card
Number of power module filled slots	0
Number of power module free slots	0
Redundant	No
Range of product	Smart-UPS On-Line
Product or component type	Uninterruptible power supply (UPS)
Performance multiplier	1
Number of tare power	175 W
Value multiplier	1
Size UPS version	Internetworking Server Telecom
Curve equation	Efficiency
Curve fixed loss	0.0119
Curve load maximum	100 %
Curve load minimum	2 %
Curve proportional loss	0
Curve square loss	0.055
Curve test cond ID	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.
Curve X-axis maximum	100 %
Curve X-axis minimum	0 %
Curve X-axis title	Load
Curve X-axis units	Percentage
Curve Y-axis maximum	100 %
Curve Y-axis minimum	50 %
Curve Y-axis title	Efficiency
Curve Y-axis units	Percentage
Graph display	1
Show note OP temperature	No
Battery curve	C
Liquid value	0
Battery design life	2 year(s)
UPS design life	7 year(s)
Battery power in VAH	3840 VAh runtime
Battery option	SURT192RMXLBP2 1 7680 VAh SURT192RMXLBP2 2 11520 VAh SURT192RMXLBP2 3 15360 VAh SURT192RMXLBP2 4 19200 VAh SURT192RMXLBP2 5 23040 VAh SURT192RMXLBP2 6 26880 VAh SURT192RMXLBP2 8 34560 VAh SURT192RMXLBP2 9 38400 VAh

UPS size	S
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Environment

Product certifications	BSMI VDE
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Standards	EN/IEC 62040-1:2019/A11:2021 EN/IEC 62040-2:2006/AC:2006 EN/IEC 62040-2:2018
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Ambient air temperature for operation	0...40 °C
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Ambient air temperature for storage	-15...45 °C
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Storage altitude	0...15240 m
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IP degree of protection	IP20
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Relative humidity	0...95 % non-condensing
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Storage Relative Humidity	0...95 % non-condensing
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Acoustic level	59 dBA
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Heat dissipation	3770 Btu/h
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Operating altitude	0...10000 ft
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Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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Package 1 Height	99 cm
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Package 1 Width	61 cm
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Package 1 Length	100.3 cm
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Package 1 Weight	314.09 kg
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Unit Type of Package 2	PAL
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Number of Units in Package 2	2
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Package 2 Height	111 cm
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Package 2 Width	100 cm
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Package 2 Length	120 cm
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Package 2 Weight	626.864 kg
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Contractual warranty

Warranty (in months)	24
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Total lifecycle Carbon footprint 25753

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number 409c68a1-39a6-4e5f-b080-12befe783ad8

REACH Regulation [REACH Declaration](#)

Use Longer

Lifetime extension

Repair No

Use Again

Repack and remanufacture

End of life manual availability [End of Life Information](#)

Removable battery User replaceable

Take-back No

WEEE Label The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Image of product / Alternate images

Alternative





