Smart-UPS On-Line

1-20 kVA

High-density, double-conversion online power protection with scalable runtime

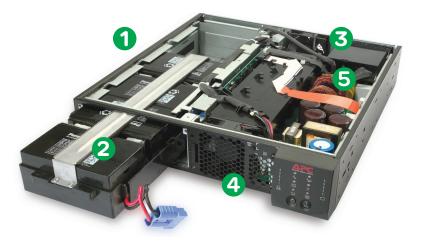


A versatile UPS developed for unstable power conditions worldwide.

Smart-UPS[™] On-Line provides high-density, true double-conversion online power protection for servers, voice/data networks, medical labs, and light industrial applications. Capable of supporting loads from 1 to 20 kVA in a rack/tower convertible form, the Smart-UPS On-Line is available from 2 U to 12 U. The 15 kVA and 20 kVA models enable support of power-hungry blade servers or heavily loaded equipment racks. When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line can be configured with matching battery packs to comply with aggressive runtime demands. The included PowerChute[™] management software provides unattended graceful shutdown of network operating systems. All models 5 kVA and above include an integrated network management card for remote management (optional on models below 5 kVA). The entire Smart-UPS On-Line family provides value to customers with demanding power conditions, including a very wide input voltage window, extremely tight output voltage regulation, frequency regulation, internal bypass, and input power factor correction.



Features and benefits





Rack/tower convertible

Ensures integration in various environments

A Hot-swappable/user-replaceable batteries

Ensures continuous operation of the load even when the batteries are being replaced



Double-conversion online

Provides tight voltage and frequency regulation and zero transfer time for reactive loads (machinery, lab equipment, etc.)



Advanced 16-segment LED display

Quickly understand unit and power status with visual indicators (LCD on 15 – 20 kVA models)



Frequency and voltage regulation

Gives higher application availability by correcting poor frequency and voltage conditions without using the battery

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UPS Network Management Card with Environmental Monitoring

Provides remote user interface, managed via web browser, SNMP, and Telnet. Includes graceful unattended shutdown. The UPS Network Management Card is pre-installed on UPS models 5 kVA through 20 kVA

2 Serial connectivity

Enables quick and easy configuration of the UPS



Scalable runtime

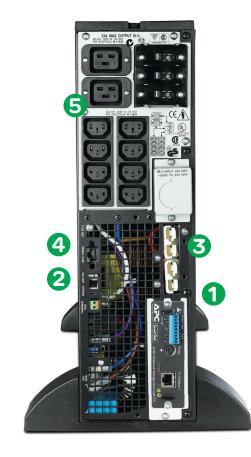
Allows additional runtime to be quickly added as needed

Built-in automatic and manual bypass

Ensures seamless power to the load even in the event of catastrophic UPS failure

5 Field-replaceable power distribution panels

Enables quick in-field modification of output receptacles to fit changing needs



Product accessories

Management cards

AP9610: Relay I/O SmartSlot[™] Card (not compatible with SURTD UPS models)

AP9622: Modbus[®]/Jbus Interface Card (not compatible with SURTD UPS models)

AP9630: UPS Network Management Card

AP9631: UPS Network Management Card with Environmental Monitoring

AP9810: APC[™] by Schneider Electric[™] Dry Contact I/O Accessory (not compatible with SURTD UPS models)

AP9620: Legacy Communications SmartSlot Card (compatible with SURTD UPS models only)

Transformers

APTF10KW01: APC WW 10 kVA Isolation Transformer

APTF20KW01: APC WW 20 kVA Isolation Transformer

SURT001: APC Smart-UPS RT 3000 VA 230 V Isolation Transformer

SURT002: APC Smart-UPS RT 5000 VA 230 V Isolation Transformer

Backplate kits

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

SYPD10: Symmetra[™] RM 230 V Backplate Kit with (2) IEC 320 C19 and (1) IEC 60309

Other

SURT013: SURT Equipment Cart

Rail kits

SURTRK: APC Smart-UPS RT 482 mm Rail Kit 1 kVA and 2 kVA

SURTRK2: APC Smart-UPS RT 482 mm Rail Kit for Smart-UPS RT 3/5/6/8/10 kVA

SURTRK4: APC Smart-UPS RT 482 mm Rail Kit for Smart-UPS RT 15/20 kVA

Battery packs

SURT48XLBP: APC Smart-UPS RT 48 V Battery Pack

SURT48RMXLBP: APC Smart-UPS RT 48 V RM Battery Pack

SURT192XLBP: APC Smart-UPS RT 192 V Battery Pack

SURT192RMXLBP: APC Smart-UPS RT 192 V RM Battery Pack

SURT192RMXLBP2: APC Smart-UPS RT 192 V RM Battery Pack 2 Rows

Service bypass panels

SBP3000: APC Service Bypass Panel 100 – 240 V; 30 A; BBM; Hardwire Input/Output

SBP6KRMI2U: APC Service Bypass Panel 230 V; 50 A; MBB; Hardwire Input; (4) IEC 320 C19 Output

SBP10KRMI4U: APC Service Bypass Panel 230 V; 100 A; MBB; Hardwire Input; IEC 320 Output (8) C13 (2) C19

SBP20KP: APC Service Bypass Panel 200/208/230/240 V 125 A HW Input/Output

SBP20KRMI4U: APC Service Bypass Panel 230 V 125 A HW Input IEC 320 Output (8) C19











A comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services (CPCS) provides the expertise, services, and support you need for your building, industry, power, or data center infrastructure. Our world-class life cycle services offer a smart way to install and maintain your critical applications, ensuring your systems are always running at peak performance.

Technical specifications

| UPS VA | 1000 | 2000 | 3000 | 5000 | 6000 | 8000 | 10000 | 15000 | 20000 | |
|-------------------------------------|---|-------------------------------|--------|----------|---------------|--|--------|-------|---------|--|
| Output | | | | | | | | | | |
| Тороlоду | Double-conversion online | | | | | | | | | |
| Nominal output voltage | Configurable for 220 : 230 or 240 nominal output voltageConfigurable for 220 : 230 : 240 : 400 V nominal output voltage | | | | | | | | | |
| Efficiency at full load | Up to 92% | | | | | | | | | |
| Output frequency (sync to mains) | 50/60 Hz +/- 3 Hz user adjustable | | | | | | | | | |
| Output power capacity | 700 W | 1400 W | 2100 W | 3500 W | 4200 W | 6400 W | 8000 W | 12 kW | 16 kW | |
| Output connections | (1) Hardwire 3-wire (6) IEC 320 C13 (8) IEC 320 C13; (2) IEC 320 C19 (H + N + G); (4) IEC 320 C19 C13; (4) IEC 320 C19 | | | | ; (4) IEC 320 | (1) Hardwire 3-wire (H + N + G); (1) Hardwire 5-wire (3PH + N + G); (8) IEC 320 C19 | | | | |
| Input | | | | | | | | | | |
| Nominal input voltage | 230 V | | | | | 230 V or 400 V | | | | |
| Input frequency | 45 – 65 Hz (auto sensing) | | | | | | | | | |
| Input connections | | S1363A; IEC 3 uko CEE 7/EU | | | | Hardwire 3-wire (1PH + N + G); Hardwire 5-wire (3PH + N + G) | | | | |
| Bypass | Automatic and Manual (Built-in) | | | | | | | | | |
| Battery | | | | | | | | | | |
| Battery type | Maintenance-free sealed lead-acid battery with suspended electrolyte: leak proof | | | | | | | | | |
| Replacement battery | RBC31 RBC44 | | | | | | | | | |
| Runtime | See Chart Below | | | | | | | | | |
| Communications and Mar | nagement | | | | | | | | | |
| Interface port(s) | DB-9 RS-232, SmartSlot, USB RJ-45 10/100 Base-T, RJ-45 Serial, SmartSlot | | | | | lot | | | | |
| Pre-installed SmartSlot card | _ | _ | _ | AP9631 | | | | | | |
| Emergency power off (EPO) | Ν | lo | Yes | | | | | | | |
| Control panel | | | | LEDs | | | | LCD I | Display | |
| Physical | | | | | | | | | | |
| Rack height | 2 U | | 3 U | | 6 | U | 12 | 2 U | | |
| Maximum height | | | | 432 mm | | | | 533 | i mm | |
| Maximum width | 85 mm | | 130 mm | | 263 | mm | 432 | ? mm | | |
| Maximum depth | 483 mm | | 660 mm | | 736 | mm | 773 | mm | | |
| Net weight | 25.00 kg | | | 54.55 kg | | 110. | 91 kg | 247. | 70 kg | |

Runtime estimates at half and full load (minutes)

| UPS VA | 1000 | 2000 | 3000 | 5000 | 6000 | 8000 | 10000 | 15000 | 20000 |
|------------------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| Internal | 32/14 | 17/6 | 34/14 | 18/6 | 16/5 | 20/7 | 15/5 | 22/8 | 15/5 |
| (1) Battery pack | 122/69 | 67/30 | 122/57 | 70/31 | 49/21 | 48/21 | 37/15 | 53/23 | 38/15 |
| (2) Battery pack | 257/129 | 121/56 | 217/102 | 125/58 | 88/40 | 76/35 | 60/26 | 84/38 | 60/27 |
| (3) Battery pack | 360/180 | 177/83 | 315/150 | 183/85 | 130/60 | 106/49 | 83/38 | 117/54 | 85/38 |
| (4) Battery pack | 480/240 | 234/110 | 416/199 | 242/113 | 172/80 | 136/63 | 107/49 | 150/69 | 104/50 |

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