

A man with glasses and a plaid shirt is looking at a tablet in a server room. The background shows server racks with green cables and lights.

APC™

Easy UPS On-Line 230 V

Product Brochure

For IT professionals in small to medium businesses, APC™ Easy UPS On-Line provides advanced power protection in unstable power conditions, ensuring consistent and reliable connectivity.

APC Easy UPS On-Line is a versatile, high quality, cost-competitive UPS, developed to handle a wide input voltage range and inconsistent power conditions, delivering quality power to millions of IT professionals around the world trust.

That's Certainty in a Connected World.

apc.com



Life Is On

Schneider
Electric

APC Easy UPS On-Line standard features and applications

Standard Models

Built-in batteries for Plug-and-Play will provide a ~2 to 4 min typical battery backup power for the connected equipment at full load.

Extended-Run Models

Extended-run models have the capability to add external battery packs to scale runtime from minutes to hours, making them ideal for mixed load applications.

UXI Models

UXI series has the capability to add third-party external batteries to get longer runtime, providing flexibility when selecting batteries.

Standard Features

True on-line double-conversion

Ensures clean, reliable power supply to essential loads from brownouts, line noise, voltage transients and power outages.

High Power Factor

- 0.8 PF for 3000 VA and below
- Unity power factor VA = Watt for 5000 VA and above

Powers more servers than similar UPSs with equivalent VA ratings with lower power factors.

Built-in Automatic Bypass

Ensures seamless power to the load even in the event of UPS internal detected fault or error.

Cold Start Capability

Enables user to power up connected equipment's on battery mode when utility power is not available.

High Efficiency

Up to 88 – 94% efficiency in on-line double-conversion mode and 95 – 97% in ECO mode which saves utility and cooling costs without compromising performance or reliability.

Environmentally Robust

Conformal coated to help protect the components from the elements, including moisture, dust and extreme temperatures.

2 years warranty on UPS

Comprehensive warranty for electronics and battery functionality provides peace of mind. In an unlikely event of a detected fault or error, your product will be repaired or replaced quickly.

Wide Input Voltage Range

1000 – 3000 VA/110 – 285 Vac, 5000 – 20,000 VA/110 – 300 Vac, works in unstable power conditions and minimizes transfer to battery.

LCD/LED Display

Intuitive interface provides detailed and accurate information about UPS status with ability to configure locally.

Generator Compatible

Generator-compatible with a wide Input Frequency range (40 – 70 Hz) ensures clean, uninterrupted power to the loads during power outage.

Emergency Power Off (EPO)

Remote UPS shutoff in the event of a fire or other emergency. The UPS can accept normally closed (NC) contacts (on select models only).

1:1, 3:1 input hard-wire options

Product can be wired for 3-PH or 1-PH input (10,000 VA, 15,000 VA and 20,000 VA UXI models only).

Typical applications

- Small data centers and computer rooms
- Manufacturing facilities
- Telecommunication
- Healthcare IT
- Network Storage Devices

Easy UPS On-Line Accessories



Management card: AP9544

Management cards

- AP9544: Network management card for remote monitoring of UPS.
- VGL9901I: Dry contact card to monitor external triggers and initiate actions.
- SRVSMB001: Modbus card for communication with PCs through MODBUS protocol.



Battery pack: SRV72RBP-9A

Battery packs

- SRV72RBP-9A/SRV72RBP-INX: External battery pack for 2000 VA and 3000 VA extended run UPS.
- SRV240RBP-9A/SRV240RBP-INX: External battery pack for 5000 VA, 6000 VA and 10,000 VA extended run UPS.
- SRV120RLBP2-9A: External battery pack for 10,000 VA, 15,000 VA and 20,000 VA (3:1) extended run UPS.



Rail kit: SRVRK2

Rail kits

- SRVRK1: 700 mm depth rail kit. Can support rack mount installation for standard 19-inch rack equipment with maximum weight of 60 kg.
- SRVRK2: 900 mm depth rail kit. Can support rack mount installation for standard 19-inch rack equipment with maximum weight of 100 kg.



Parallel kit: SRVPK001

Parallel kit

- SRVPK001: Parallel kit for 5000, 6000 and 10,000 VA (1:1) models to connect up to 3 UPSs in parallel for capacity addition.
- SRVPK002: Parallel kit for 10,000, 15,000 and 20,000 VA (3:1) models to connect up to 3 UPSs in parallel for capacity addition.

Note: Remote monitoring and graceful server shutdown with PowerChute software is not supported in parallel configuration.

Runtime estimates at half and full load for extended runtime models (minutes)

| Number of Battery Packs | SRV2KRIL-IN | SRV3KRIL-IN SRV3KRIL-INX | SRV5KRIL-IN | SRV6KRIL-IN SRV6KRIL-INX | SRV10KRIL-IN |
|----------------------------|-------------|-----------------------------|-------------|-----------------------------|--------------|
| UPS at half/full loads | 800/1600 | 1200/2400 | 2500/5000 | 3000/6000 | 5000/10000 |
| (1) Battery pack (default) | 48/22 | 28/13 | 21/8 | 16/6 | 8/2 |
| (2) Battery packs | 141/52 | 74/30 | 49/21 | 39/16 | 21/8 |
| (3) Battery packs | 190/86 | 116/54 | 80/34 | 64/27 | 34/14 |
| (4) Battery packs | 244/117 | 144/65 | 113/48 | 90/39 | 48/21 |

Note: Runtime in the table are approximate only. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

Easy UPS Management Solutions

PowerChute™ Serial Shutdown

For Graceful Unattended Shutdown of Servers and Workstations



Key Features

Convenience

- Initial Set-Up Wizard
- SMTP Authentication
- Password Security
- Secure Communication
- Multiple Language Support

Manageability

- Notification
- Data Logging
- Event Logging
- Run Command File
- Multiple Easy UPS Management

Protection

- Load Shedding
- Scheduling Capability
- Operating System Shutdown
- Sequenced Network Shutdown and Reboot
- Outlet Group Control

Compatibility

- System Event Log Integration
- Enterprise Management System Compatible
- PowerChute Serial Shutdown OS Compatibility

Energy Management

- Configurable energy costs
- CO2 emissions reporting
- Energy usage reporting
- Energy cost reporting

Graceful unattended shutdown of servers and workstations using serial or USB cables helps prevent data corruption and costly equipment damage. Learn more on apc.com/pcss.

Optional Easy UPS Network Management Card (AP9544)

Easy UPS Network Management Card (AP9544) allows for secure remote monitoring of an individual UPS via web browser or command line interface.



Key Features

Enhanced Security

- Secure Boot with Root of Trust
- Increased password security with stricter credentials and force password policy configurations
- 3-tier user access (read only, device and administrator)
- Secure access SSH, HTTPS (TLS 1.2)
- Secure file transfer (SCP)
- 2048-bit encryption key support (SSH/web)

Enhanced Performance

- 1 Gigabit Ethernet connection (RJ-45 10/100/1000 Base-T)
- Simultaneous multiple user login: Supports multiple sessions

Enhanced User Experience and Troubleshooting

- Pre-loaded multiple language support
- Micro USB based console

For more information, visit apc.com/secure-nmc.

Standard Models

SKU technical specifications

| Product feature | SRV1KL-IN SRV1KL-INX | SRV2KL-IN | SRV3KL-IN |
|--|--|----------------|---|
| Power rating | 1000 VA/800 W | 2000 VA/1600 W | 3000 VA/2400 W |
| Input | | | |
| Nominal input voltage | 230 V | | |
| Input voltage range at full load (half load) | 160 – 280 V (110 – 280 V) | | |
| Input frequency | 40 – 70 Hz auto-selecting | | |
| Input connection | IEC 60320 C14 | | IEC 60320 C20 |
| Output | | | |
| Nominal output voltage | 230 V (220 V, 240 V user selectable) | | |
| Output frequency | 50/60 Hz \pm 3 Hz (On Mains) or 50/60 Hz \pm 0.1 Hz (On Battery) | | |
| Topology | Double-conversion on-line | | |
| Waveform type | Pure sine wave | | |
| Efficiency: Double-conversion mode (typical) | Upto 88% | | Upto 90% |
| Efficiency: ECO mode (typical) | Upto 95% | | |
| Output connections | (4) India socket | | (4) India socket (1) Hard wire 3-wire (1P+N+G) |
| Battery and Runtime* | | | |
| Battery type | Sealed maintenance free valve regulated lead acid battery (leak proof) | | |
| Battery capacity | 12 V 7 Ah (3) | 12 V 9 Ah (4) | 12 V 9 Ah (6) |
| Battery voltage | 36 Vdc | 48 V | 72 V |
| Typical recharge time | 4 hours to recover 90% of capacity | | |
| Runtime at half load (min) | 12 | 10 | 11 |
| Runtime at full load (min) | 4 | 2 | 3 |
| Communications and management | | | |
| Interface ports | Serial RS-232, USB (Type B), Intelligent Slot | | |
| Control panel | LED indicators, multi-function LCD, status and display console | | |
| Emergency Power Off (EPO) | Yes (NC contacts) | - | - |
| Physical | | | |
| Rack height (U) | 2U | | |
| Dimensions W x H x D (mm) | 438 x 86.2 x 412.2 | 438 x 88 x 462 | 438 x 88 x 632 |
| Net weight (kg) | 13.6 | 19 | 28 |
| Color | RAL 7010 | | |
| Environment | | | |
| Operating temperature | 0 to 40 °C | | |
| Relative humidity | 0 to 95% non-condensing | | |
| Operating elevation | 0 to 2,000 m at 100% load | | |
| Audible noise at 1 m from unit | Less than 50 dBA | | |
| International Protection Code | IP20 | | |
| Conformance | | | |
| Regulatory approvals | BIS | | |
| Standard warranty | 2 years repair or replace | | |

All specifications are subject to change without prior notice.

* Runtime in the table are approximate only. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output

Extended Run Models

SKU technical specifications

| Product feature | SRV2KRIL-IN | SRV3KRIL-IN SRV3KRIL-INX | SRV5KRIL-IN | SRV6KRIL-IN SRV6KRIL-INX | SRV10KRIL-IN |
|--|---|-----------------------------|-------------------------------|-----------------------------|--------------------|
| Power rating | 2000 VA/1600 W | 3000 VA/2400W | 5000 VA/5000 W | 6000 VA/6000 W | 10,000 VA/10,000 W |
| Input | | | | | |
| Nominal input voltage | 230 V | | | | |
| Input voltage range at full load (half load) | 160 – 280 V (110 – 280 V) | | 176 – 300 V (110 – 300 V) | | |
| Input frequency | 40 – 70 Hz auto-selecting | | | | |
| Input connection | (1) Hard wire 3-wire (1P+N+G) | | | | |
| Output | | | | | |
| Nominal output voltage | 230 V (220 V, 240 V user selectable) | | | | |
| Output frequency | 50/60 Hz \pm 3 Hz (On Mains) or 50/60 Hz \pm 0.5% (On Battery) | | | | |
| Topology | Double-conversion on-line | | | | |
| Waveform type | Pure sine wave | | | | |
| Efficiency: Double-conversion mode (typical) | Upto 88% | Upto 90% | Upto 94% | | |
| Efficiency: ECO mode (typical) | Upto 95% | | Upto 97% | | |
| Output connections | (3) India socket (1) Hard wire 3-wire (1P+N+G) | | (1) Hard wire 3-wire (1P+N+G) | | |
| Battery and Runtime* | | | | | |
| Battery type | Sealed maintenance free valve regulated lead acid battery, leak proof | | | | |
| Battery capacity | 2 strings of 12 V 9 Ah (6) | | 1 string of 12 V 9 Ah (20) | | |
| Battery voltage | 72 V | | 240 V | | |
| External battery pack | SRV72RBP-9A | | SRV240RBP-9A | | |
| Typical recharge time | 4 hours to recover 90% of capacity | | | | |
| Runtime at half load (min) | 47 | 29 | 24 | 18 | 8 |
| Runtime at full load (min) | 19 | 10 | 8 | 6 | 2 |
| Communications and management | | | | | |
| Interface ports | Serial RS-232, USB (Type B), Intelligent Slot | | | | |
| Control panel | LED indicators, multi-function LCD, status and display console | | | | |
| Emergency power off (EPO) | Yes (NC contacts) | | | | |
| Physical | | | | | |
| Rack height (U) | 4U | | 5U | | |
| Dimensions W x H x D (mm) (Power module) | 438 x 86 x 462 | | 438 x 86 x 615 | | |
| Dimensions W x H x D (mm) (Battery pack) | 438 x 86 x 632 | | 438 x 133 x 606 | | |
| Net weight (kg) (Power module) | 9.3 | 10.1 | 15 | | 16 |
| Net weight (kg) (Battery pack) | 40 | | 63 | | |
| Color | RAL 7010 | | | | |
| Environment | | | | | |
| Operating temperature | 0 to 40 °C | | | | |
| Relative humidity | 0 to 95% non-condensing | | | | |
| Operating elevation | 0 to 2,000 m at 100% load | | | | |
| Audible noise at 1 m from unit | Less than 50 dBA | | Less than 60 dBA | | |
| International protection code | IP20 | | | | |
| Conformance | | | | | |
| Regulatory approvals | BIS | | | | |
| Standard warranty | 2 years repair or replace | | | | |

All specifications are subject to change without prior notice.

*Runtime in the table are approximate only.

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

UXI Models

SKU technical specifications

| Product feature | SRV1KUXI-IN SRV1KUXI-INX | SRV2KUXI-IN | SRV3KUXI-IN SRV3KUXI-INX | SRV5KL-IN* SRV5KUXI-IN | SRV6KL-IN* SRV6KL-INX* SRV6KUXI-IN |
|--|--|---|-----------------------------|--------------------------------------|--|
| Power rating | 1000 VA/800 W | 2000 VA/1600 W | 3000 VA/2400 W | 5000 VA/5000 W | 6000 VA/6000 W |
| Input | | | | | |
| Nominal input voltage | 230 V | | | | |
| Input voltage range at full load (half load) | 160 – 280 V (110 – 285 V) | | | 176 – 300 V (110 – 300 V) | |
| Input frequency | 40 – 70 Hz auto-selecting | | | | |
| Input connection | IEC 60320 C14 | (1) Hard wire 3-wire (1P+N+G) | | | |
| Output | | | | | |
| Nominal output voltage | 230 V (220 V, 240 V user selectable) | | | | |
| Output frequency | 50/60 Hz ± 3 Hz (On Mains) or 50/60 Hz ± 0.5 Hz (On Battery) | | | | |
| Topology | Double-conversion on-line | | | | |
| Waveform type | Pure sine wave | | | | |
| Efficiency: Double-conversion mode (typical) | Upto 88% | | Upto 90% | | Upto 94% |
| Efficiency: ECO mode (typical) | Upto 95% | | | Upto 97% | |
| Output connections | (4) India socket | (3) India socket (1) Hard wire 3-wire (1P+N+G) | | (1) Hard wire 3-wire (1P+N+G) | |
| Battery | | | | | |
| Battery type | No internal battery – uses external battery | | | | |
| Battery charger capacity | 1 – 8 A (selectable) for UXI models and 1 – 4 A (selectable) for non-UXI models* | | | | |
| Battery Voltage | 24 V | 72 V | | 192 ¹ – 240 V(selectable) | |
| Communications and management | | | | | |
| Interface ports | Serial RS-232, USB (type B), Intelligent Slot | | | | |
| Control panel | LED indicators, multi-function LCD, status and display console | | | | |
| Emergency power off (EPO) | Yes (NC contacts) | | | | |
| Physical | | | | | |
| Rack height (U) | 2U | | | | |
| Dimensions W x H x D (mm) | 438 x 86.2 x 332 | 438 x 86.2 x 462.2 | | 438 x 86.5 x 615 | |
| Net weight (kg) | 7.2 | 9.8 | 10.1 | 15 | |
| Color | RAL 7010 | | | | |
| Environment | | | | | |
| Operating temperature | 0 to 40 °C | | | | |
| Relative humidity | 0 to 95% non-condensing | | | | |
| Operating elevation | 0 to 2,000 m at 100% load | | | 0 to 1,000 m at 100% load | |
| Audible noise at 1 m from unit | Less than 50 dBA | | | Less than 60 dBA | |
| International protection code | IP20 | | | | |
| Conformance | | | | | |
| Regulatory approvals | BIS | | | | |
| Standard warranty | 2 years repair or replace | | | | |

All specifications are subject to change without prior notice.

¹ Power derates to 80% of total capacity.

UXI Models

SKU technical specifications

| Product feature | SRV10KUXI-IN SRV10KUXI-INX | SRV15KUXI-IN | SRV20KUXI-IN |
|--|--|--|--------------------|
| Power rating | 10,000 VA/10,000 W | 15,000 VA/15,000 W | 20,000 VA/20,000 W |
| Input | | | |
| Nominal input voltage | 230 V (PH-N)/400 V (PH-PH) (default) | | |
| Input voltage range at full load (half load) | 176 – 300/305 – 520 V (110 – 300/190 – 520 V) | 176 – 275/305 – 476 V (110 – 300/190 – 520 V) | |
| Input frequency | 40 – 70 Hz auto-selecting | | |
| Input connection | (1) Hard wire 3-wire (1P+N+G) or (1) Hard wire 5-wire (3P+N+G) | | |
| Output | | | |
| Nominal output voltage | 230 V (220 V, 240 V user selectable) | | |
| Output frequency | 50/60 Hz \pm 3 Hz (On Mains) or 50/60 Hz \pm 0.1 Hz (On Battery) | | |
| Topology | Double-conversion on-line | | |
| Waveform type | Pure sine wave | | |
| Efficiency: Double-conversion mode (typical) | Up to 95% | | |
| Efficiency: ECO mode (typical) | Up to 97% | | |
| Output connections | (1) Hard wire 3-wire (1P+N+G) | | |
| Battery | | | |
| Battery type | No internal battery – uses external battery | | |
| Battery charger capacity | 3 – 13 A (selectable) | | |
| Battery Voltage | \pm 96 ¹ – 120 V (selectable) | | |
| Communications and management | | | |
| Interface ports | Serial RS-232, USB (Type B), Intelligent Slot | | |
| Control panel | LED indicators, multi-function LCD, status and display console | | |
| Emergency power off (EPO) | Yes (NC contacts) | | |
| Physical | | | |
| Rack height (U) | 3U | | |
| Dimensions W x H x D (mm) | 130.6 x 438 x 689.4 | | |
| Net weight (kg) | 25 | 29 | 29 |
| Color | RAL 7010 | | |
| Environment | | | |
| Operating temperature | 0 to 40 °C | | |
| Relative humidity | 0 to 95% non-condensing | | |
| Operating elevation | 0 to 1,000 m at 100% load | | |
| Audible noise at 1 m from unit | Less than 60 dBA | | |
| International Protection Code | IP20 | | |
| Conformance | | | |
| Regulatory approvals | BIS | CE, IEC 62040-1, IEC 62040-2 | |
| Standard warranty | 2 years repair or replace | | |

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¹ Power derates to 80% of total capacity.

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