



# APC™

## Easy UPS On-Line 230V

### 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.

That's Certainty in a Connected World.



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# APC Easy UPS On-Line standard features and applications

## Easy UPS On-Line 1000 – 3000 VA

### Tower Models

Built-in batteries for Plug-and-Play will provide a standard battery backup power for the connected equipment suitable for compact installations where floor or desk mount is required.

### Rackmount Models

Built-in batteries for Plug-and-Play will provide a standard battery backup power for the connected equipment suitable for standard 19-inch rack installation which occupies only 2U rack space.

## Standard Features

### True online double-conversion

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

### High Power Factor

Output power factor up to 0.9  
Powers more servers than similar UPSs with equivalent VA ratings with lower power factors.

### Generator Compatible

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

### High Efficiency

Up to 88 – 90% efficiency in online double conversion mode and 93 – 94% 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.

### Cold Start Capability

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

### 2 year 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, 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.

### Built-in Automatic Bypass

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

### Emergency Power Off (EPO)

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

### Typical applications

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

# Easy UPS On-Line Accessories

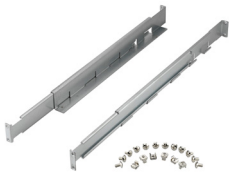


Management card: AP9544

## Management cards

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

Note: Purchase and activation of a license is required to access all features and capabilities of the AP9544 card.



Rail kit: SRVRK1

## 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.



RBC: APCRBCV203

## Replacement Battery Cartridges (RBC)

APC Easy Replacement Battery Cartridges comes fully assembled and can be easily replaced by an APC authorized service technician.

The battery cartridges are compliant with international regulations and safe for transport. For compatible models, refer to the reference table of each series.

| Reference |           | Compatible RBC |            |
|-----------|-----------|----------------|------------|
| Tower     | Rackmount | Tower          | Rackmount  |
| SRV1KI-E  | SRV1KRI-E | APCRBCV203     | APCRBCV200 |
| SRV2KI-E  | SRV2KRI-E | APCRBCV204     | APCRBCV201 |
| SRV3KI-E  | SRV3KRI-E | APCRBCV205     | APCRBCV202 |

## Runtime estimates at %load (minutes)

| Load% | SRV1KI-E<br>SRV1KRI-E | SRV2KI-E<br>SRV2KRI-E | SRV3KI-E<br>SRV3KRI-E |
|-------|-----------------------|-----------------------|-----------------------|
| 100%  | 3                     | 3                     | 3                     |
| 75%   | 5                     | 5.5                   | 6.5                   |
| 50%   | 10                    | 10                    | 10                    |
| 25%   | 25                    | 26                    | 27                    |

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 [www.apc.com/pcss](http://www.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

Note: Purchase and activation of a license is required to access all features and capabilities of the AP9544 card.

# Standard Tower Models

## SKU technical specifications

| Product feature                              | SRV1KI-E   | SRV2KI-E        | SRV3KI-E                            |
|--|--|-----------------|-------------------------------------|
| Power rating                                 | 1000 VA/900 W  | 2000 VA/1800 W  | 3000 VA/2700 W                      |
| Input  |  |                 |                                     |
| Nominal input voltage                        | 230 V  |                 |                                     |
| Input voltage range at full load (half load) | 180 – 285 V (110 – 285 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) 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 94%   |                 |                                     |
| Output connections                           | (3) IEC 320 C13  | (4) IEC 320 C13 | (6) IEC 320 C13,<br>(1) IEC 320 C19 |
| Battery and Runtime*                         |  |                 |                                     |
| Battery type                                 | Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof |                 |                                     |
| Battery capacity                             | 12 V 9 Ah (2)  | 12 V 9 Ah (4)   | 12 V 9 Ah (6)                       |
| Battery voltage                              | 24 V   | 48 V            | 72 V                                |
| Typical recharge time                        | 4 hours to recover 90% of capacity   |                 |                                     |
| Runtime at half load (min)                   | 10   | 10              | 10                                  |
| Runtime at full load (min)                   | 3  | 3               | 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                                     |  |                 |                                     |
| Dimensions W x H x D (mm)                    | 145 x 223 x 288  | 145 x 238 x 400 | 190 x 336 x 425                     |
| Net weight (kg)                              | 9.6  | 17              | 26                                  |
| 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 1m from unit                | Less than 50 dBA   |                 |                                     |
| International Protection Code                | IP20   |                 |                                     |
| Conformance                                  |  |                 |                                     |
| Regulatory approvals                         | CE, UKCA, TISI, IEC 62040-1, IEC 62040-2   |                 |                                     |
| 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

# Standard Rack Models

## SKU technical specifications

| Product feature                              | SRV1KRI-E<br>SRV1KRIRK-E   | SRV2KRI-E<br>SRV2KRIRK-E | SRV3KRI-E<br>SRV3KRIRK-E           |
|--|--|--------------------------|------------------------------------|
| Power rating                                 | 1000 VA/900 W  | 2000 VA/1800 W           | 3000 VA/2700 W                     |
| Input  |  |                          |                                    |
| Nominal input voltage                        | 230 V  |                          |                                    |
| Input voltage range at full load (half load) | 180 – 285 V (110 – 285 V)  |                          |                                    |
| Input frequency                              | 40 – 70 Hz auto-selecting  |                          |                                    |
| Input connection                             | IEC 60320 C14  |                          | IEC 60320 C20                      |
| Output                                       |  |                          |                                    |
| Nominal output voltage                       | 230V (220V, 240V user selectable)  |                          |                                    |
| Output frequency                             | 50/60 Hz ± 3 Hz (On Mains) 50/60 Hz ± 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 94%   |                          |                                    |
| Output connections                           | (3) IEC 320 C13  | (4) IEC 320 C13          | (6) IEC 320 C13<br>(1) IEC 320 C19 |
| Battery and Runtime*                         |  |                          |                                    |
| Battery type                                 | Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof |                          |                                    |
| Battery capacity                             | 12 V 9 Ah (2)  | 12 V 9 Ah (4)            | 12 V 9 Ah (6)                      |
| Battery voltage                              | 24 V   | 48 V                     | 72 V                               |
| Typical recharge time                        | 4 hours to recover 90% of capacity   |                          |                                    |
| Runtime at half load (min)                   | 10   | 10                       | 10                                 |
| Runtime at full load (min)                   | 3  | 3                        | 3                                  |
| Communications and management                |  |                          |                                    |
| Interface ports                              | Serial RS-232, USB (Type B), Intelligent Smart-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 x 312   | 438 x 86 x 462           | 438 x 86 x 632                     |
| Net weight (kg)                              | 11.5   | 18.8                     | 28.5                               |
| 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 1m from unit                | Less than 50 dBA   |                          |                                    |
| International Protection Code                | IP20   |                          |                                    |
| Conformance                                  |  |                          |                                    |
| Regulatory approvals                         | CE, UKCA, TISI, IEC 62040-1, IEC 62040-2   |                          |                                    |
| 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

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