Easy UPS On-Line 120 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.

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 0.8
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 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/55 – 150 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.

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.

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
SRV1KA	SRV1KRA	APCRBCV203	APCRBCV200
SRV2KA	SRV2KRA	APCRBCV204	APCRBCV201
SRV3KA	SRV3KRA	APCRBCV205	APCRBCV202

Runtime estimates at %load (minutes)

Load%	SRV1KA SRV1KRA(RK)	SRV2KA SRV2KRA(RK)	SRV3KA SRV3KRA(RK)
100%	4	4	4
75%	6	6.5	7
50%	11	12	13
25%	24	26	30

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

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	SRV1KA	SRV2KA	SRV3KA
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W
Input			
Nominal input voltage	120 V		
Input voltage range at full load (half load)	85 – 150 V (55 – 150 V)		
Input frequency	40 – 70 Hz auto-selecting		
Input connection	NEMA 5-15P	NEMA 5-20P	Hardwire
Output			
Nominal output voltage	120 V (110 V, 115 V user selectable)		
Output frequency	50/60 Hz ± 3 Hz (On Mains) 50/60 Hz ± 0.5% (On Battery)		
Topology	Double-conversion on-line		
Waveform type	Pure sine wave		
Effciency: Double-conversion mode (typical)	Upto 88%		Upto 90%
Efficiency: ECO mode (typical)	Upto 94%		
Output connections	(4) NEMA 5-15R	(4) NEMA 5-20R	(4) NEMA 5-20R, (1) NEMA 5-30R
Battery and Runtime*			
Battery type	Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof		
Battery capacity	12 V 9Ah (2)	12 V 9Ah (4)	12 V 9Ah (6)
Battery voltage	24 V	48 V	72 V
Typical recharge time	4 hours to recover 90% of capacity		
Runtime at half load (min)	11	12	13
Runtime at full load (min)	4	4	4
Communications and management			
Interface ports	Serial RS-232, USB (Type B), Intelligent Slot		
Control panel	LED indicators, multi-function LCD, status and display console		
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 1 m from unit	Less than 50 dBA		
International Protection Code	IP20		
Conformance			
Regulatory approvals	CSA C22.2 No 107.3, FCC part 15 class A, UL 1778		
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	SRV1KRA SRV1KRARK	SRV2KRA SRV2KRARK	SRV3KRA SRV3KRARK
Power rating	1000 VA/800 W	2000 VA/1600 W	3 kVA/2400 W
Input			
Nominal input voltage	120 V		
Input voltage range at full load (half load)	85 – 150 V (55 – 150 V)		
Input frequency	40 – 70 Hz auto-selecting		
Input connection	NEMA 5-15P	NEMA 5-20P	NEMA L5-30P
Output			
Nominal output voltage	120 V (110 V, 115 V user selectable)		
Output frequency	50/60 Hz ± 3 Hz (On Mains) 50/60 Hz ± 0.5 Hz (On Battery)		
Topology	Double-conversion on-line		
Waveform type	Pure sine wave		
Effciency: Double-conversion mode(typical)	Upto 88%		Upto 90%
Efficiency: ECO mode (typical)	Upto 94%		
Output connections	(4) NEMA 5-15R	(4) NEMA 5-20R	(4) NEMA 5-20R, (1) NEMA 5-30R
Battery and Runtime*			
Battery type	Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof		
Battery capacity	12V 9Ah (2)	12V 9Ah (4)	12V 9Ah (6)
Battery voltage	24 V	48 V	72 V
Typical recharge time	4 hours to recover 90% of capacity		
Runtime at half load (min)	11	12	13
Runtime at full load (min)	4	4	4
Communications and management			
Interface ports	Serial RS-232, USB (Type B), Intelligent Slot		
Control panel	LED indicators, multi-function LCD, status and display console		
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	18.2	27.6
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 50 dBA		
International Protection Code	IP20		
Conformance			
Regulatory approvals	CSA C22.2 No 107.3, FCC part 15 class A, UL 1778		
Standard warranty	2 years repair or replace		

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