



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.

That's Certainty in a Connected World.

apc.com



Life Is On

Schneider
Electric

Easy UPS On-Line 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 Runtime Models

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

Standard Features

High Power Factor

More real output power: 0.9 PF.

Network manageable

Provides remote management of the UPS over the network via the optional SNMP card.

Extended Runtime

Add external battery packs to scale runtime from minutes to hours, fulfilling the needs of long runtime applications.

ECO Mode/Green Mode

Energy saving mode allows input voltage regulation range to be set/modified through the LCD display.

USB/Serial connectivity

Provides management of the UPS via a USB port.

Intelligent Battery Management

Maximizes battery performance through intelligent precision temperature compensated charging.

Oversoltage Cutoff Device Protection

Under special application with high voltage condition, OVCD protection will help protect the UPS components and extend UPS lifespan.

Flexible Form Factor

Rack and Tower option available which suitable for tower and rack mount applications.

Wide Input Voltage Range

1000 – 3000 VA/105 – 300 Vac, works in unstable power conditions and minimizes transfer to battery

Flash Upgradeable Firmware

Allows firmware updates via communication ports.

LCD/LED Display

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

Generator Compatible

Provides clean, uninterrupted power to the loads during generator operation.

Built-in Automatic Bypass

Provides seamless power to the load even in the event of UPS internal error.

Emergency Power Off (EPO)

In the event of emergency, immediately disconnects power to all connected equipment.

Ideal Applications



Telecommunication



Computer Room



Manufacturing Facility



Small Datacenter



Healthcare IT



Network Storage Devices

Easy UPS On-Line LCD Display and Runtime

Intuitive LCD Display



- 1. On/Off status: Indicates power is ON
- 2. On/Off button: Press to turn ON or OFF
- 3. Alert LED: Flashes red when UPS has a notification or is in steady state when there is an alert
- 4. Mute/Esc button: Mutes audible alarm and serves as the Escape key when in the sub menus display
- 5. Enter key: Press to enter the display menus and choose options.
- 6. UP/Down arrows: Navigate keys through the display menus

Runtime estimates

Runtime estimates at %load (minutes) for Standard models

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

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

UPS Half/Full loads	SRV1KIL-E SRV1KRILRK-E	SRV2KIL-E SRV2KRILRK-E	SRV3KIL-E SRV3KRILRK-E
(1) Battery Pack	52/21	51/22	31/12
(2) Battery Pack	113/50	120/50	71/27
(3) Battery Pack	171/78	196/82	120/50
(4) Battery Pack	250/114	260/115	162/63

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 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.



Battery pack: SRV72RLBP-9A

Battery packs

- **SRV36BP-9A:** External battery pack for 1000 VA tower extended run UPS.
- **SRV72BP-9A:** External battery pack for 2000 VA and 3000 VA tower extended run UPS.
- **SRV36RLBP-9A:** External battery pack for 1000 VA rack extended run UPS.
- **SRV72RLBP-9A:** External battery pack for 2000 VA and 3000 VA rack extended run UPS.



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.

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

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 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, (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 2,000 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 SRV1KRIRK-E	SRV2KRI-E SRV2KRIRK-E	SRV3KRI-E 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 (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 2,000 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		

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Extended Tower Models

SKU technical specifications

Product feature	SRV1KIL-E	SRV2KIL-E	SRV3KIL-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 (40% load)	180 – 300 V (105 – 300 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 91%		Upto 93%
Output connections	(4) IEC 60320 C13		(6) IEC 60320 C13, (1) IEC 60320 C19
Battery and Runtime*			
Battery type	Sealed maintenance free valve regulated lead acid battery, leak proof		
Battery capacity	2 strings of 12V 9 Ah (3)	2 strings of 12V 9 Ah (6)	
Battery voltage	36 Vdc	72 Vdc	
External battery pack	SRV36BP-9A	SRV72BP-9A	
Typical recharge time	4 hours to recover 90% of capacity		
Runtime at half load (mins)	52	51	31
Runtime at full load (mins)	21	22	12
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)(power module)	145 x 223 x 288	145 x 238 x 400	
Dimensions W x H x D (mm) (battery pack)	145 x 238 x 400	190 x 336 x 425	190 x 336 x 425
Net weight (kg) (power module)	4.4	7.4	7.9
Net weight (kg) (battery pack)	19.6	38	
Color	RAL 7010		
Environment			
Operating temperature	0 to 40°C		
Relative humidity	0 to 95% non-condensing		
Operating elevation	0 to 3,000 m at 100% load		
Audible noise at 1 m from unit	Less than 53 dBA		
International protection code	IP20		
Conformance			
Regulatory approvals	CE, UKCA, TISI, IEC 62040-1, IEC 62040-2		
Standard warranty	2 years repair or replace		

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Extended Rack Models

SKU technical specifications

Product feature	SRV1KRIL-E SRV1KRILRK-E	SRV2KRIL-E SRV2KRILRK-E	SRV3KRIL-E SRV3KRILRK-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 (40% load)	180 – 300 V (105 – 300 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 91%		Upto 93%
Output connections	(4) IEC 60320 C13		(6) IEC 60320 C13 (1) IEC 60320 C19
Battery and Runtime*			
Battery type	Sealed maintenance free valve regulated lead acid battery, leak proof		
Battery capacity	2 strings of 12 V 9 Ah (3)	2 strings of 12 V 9 Ah (6)	
Battery voltage	36 Vdc	72 Vdc	
External battery pack	SRV36RLBP-9A	SRV72RLBP-9A	
Typical recharge time	4 hours to recover 90% of capacity		
Runtime at half load (min)	52	51	31
Runtime at full load (min)	21	22	12
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		
Dimensions WxHxD (mm)	438 x 172 x 412	438 x 172 x 632	438 x 172 x 632
Net weight (kg)	27	51.7	52
Color	RAL 7010		
Environment			
Operating temperature	0 to 40°C		
Relative humidity	0 to 95% non-condensing		
Operating elevation	0 to 3,000 m at 100% load		
Audible noise at 1 m from unit	Less than 53 dBA		
International protection code	IP20		
Conformance			
Regulatory approvals	CE, UKCA, TISI, IEC 62040-1, IEC 62040-2		
Standard warranty	2 years repair or replace		

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