APC™

Easy UPS On-Line 230 V

Product Brochure

For IT professionals in small to medium businesses, APC™ Easy UPS On-Line provides core 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.

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Easy UPS On-Line for Critical Applications

Easy UPS On-Line 10,000 – 20,000 VA

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.

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
Unity power factor VA = Watt 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 95% efficiency in on-line double-conversion mode and 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.

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 functionality provides peace of mind. In an unlikely event of a detected fault or error, your product will be repaired or replaced.

Wide Input Voltage Range
110 – 300 V 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.

1:1, 3:1 input hard-wire options
Product can be wired for 3-PH or 1-PH input.

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.

Battery pack: SRV120RLBP2-9A

Battery packs

- **SRV120RLBP2-9A:** External battery pack for 10,000, 15,000 and 20,000 VA extended run UPS.

Rail kit: SRVRK2

Rail kit

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

Easy UPS On-Line Runtime Estimates

UPS	Number of external battery packs	Runtime in minutes at given load%			
		25%	50%	75%	100%
SRV10KRIL31RK	(1) Battery pack (default)	26	9	5	3
	(2) Battery packs	61	23	15	9
	(3) Battery packs	100	42	26	18
	(4) Battery packs	141	61	37	25
	(5) Battery packs	184	79	49	34
	(6) Battery packs	228	100	61	43
	(7) Battery packs	272	120	74	51
	(8) Battery packs	316	141	86	61
	(9) Battery packs	361	162	100	70
	(10) Battery packs	406	184	114	80
SRV15KRILRK	(2) Battery packs (default)	37	15	8	4.7
	(3) Battery packs	60	26	15	10
	(4) Battery packs	86	37	22	15
	(5) Battery packs	112	48	29	20
	(6) Battery packs	141	61	37	26
	(7) Battery packs	169	73	44.5	31
	(8) Battery packs	198	86	52.5	37
	(9) Battery packs	227.5	99.5	60.5	42.5
	(10) Battery packs	257	113	69	48.5
SRV20KRILRK	(2) Battery packs (default)	23	8.9	4.7	2.5
	(3) Battery packs	42	18	10	6
	(4) Battery packs	61	25	15	9.5
	(5) Battery packs	79	34	20	14
	(6) Battery packs	100	43	26	18
	(7) Battery packs	120	51	31	21.5
	(8) Battery packs	141	61	37	26
	(9) Battery packs	162	70	42.5	29.7
	(10) Battery packs	184	80	48.5	34

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.

Extended Run Models

SKU technical specifications

Product feature	SRV10KRIL31 SRV10KRIL31RK	SRV15KRIL SRV15KRILRK	SRV20KRIL SRV20KRILRK
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 ± 3 Hz (On Mains) or 50/60 Hz ± 0.5% (On Battery)		
Topology	Double-conversion on-line		
Waveform type	Pure sine wave		
Effciency: 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 and Runtime*			
Battery type	Sealed Maintenance Free Valve Regulated Lead Acid Battery (Leak Proof)		
Battery capacity	1 string of 12 V 9 Ah (20)	2 strings of 12 V 9 Ah (20)	
Battery voltage	± 120 V		
External battery pack	SRV120RLBP2-9A (1)	SRV120RLBP2-9A (2)	
Typical recharge time	6 hours to recover 90% of capacity		
Runtime at half load (min)	9	15	8.9
Runtime at full load (min)	3	4.7	2.5
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)	6U	9U	
Dimensions W x H x D (mm) (power module)	438 x 131 x 689		
Dimensions W x H x D (mm) (battery pack)	438 x 131 x 686		
Net weight (kg) (power module)	25	29	
Net weight (kg) (battery pack)	64	128	
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		
Internal 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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