



# Easy UPS 1 Phase On-Line 230 V

## Product Brochure

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

Schneider Electric Easy UPS On-Line is a versatile, high quality, cost-competitive UPS, developed to handle a wide input voltage range and inconsistent power conditions.



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# Easy UPS On-Line



## Wide kVA Range of Products

Easy UPS On-Line is capable of supporting wide range of loads from 1 kVA up to 10 kVA.



## Versatile Design

Rackmount and tower installation options enables flexible setup.



## Extended Runtime

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



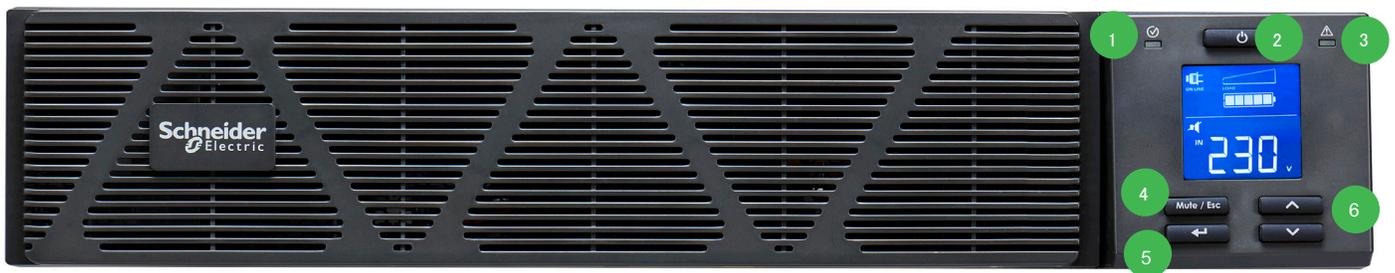
## Simplified Monitoring and Management

PowerChute™ Serial Shutdown software provides graceful unattended shutdown of servers and workstations using serial or USB cables and helps prevent data corruption and costly equipment damage.

Optional Network Management Card (part number AP9544 sold separately) supports network-based monitoring of Easy UPS On-Line.



# 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 menu display
5. Enter key: Press to enter the display menus and choose options.
6. UP/Down arrows: Navigate keys through the display menus

## Typical applications

- Manufacturing facilities
- Telecommunication
- Healthcare IT
- Buildings
- Energy storage system
- Electrical distribution

# Easy UPS On-Line Features & Runtime

## 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 PF, VA = Watt for 5000 to 10,000 VA
- Powers more servers than similar UPSs with equivalent VA ratings and 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 94 – 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.

### Wide Input Voltage Range

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

### Eco Mode/Green Mode

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

### 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.

## Runtime estimates at half and full load for 1000 VA to 10,000 VA extended runtime models (minutes)

Number of Battery Packs	SRVS1KIL SRVS1KRIL SRVS1KRILRK	SRVS2KIL SRVS2KRIL SRVS2KRILRK	SRVS3KIL SRVS3KRIL SRVS3KRILRK	SRVS6KIL SRVS6KRIL SRVS6KRILRK	SRVS10KIL SRVS10KRIL SRVS10KRILRK
UPS at half/full loads	400/800	800/1600	1200/2400	3000/6000	5000/10000
(1) Battery pack (default)	52/23	58/26	32/14	18/6	8/2
(2) Battery packs	114/54	128/60	73/33	41/18	22/9
(3) Battery packs	179/85	202/95	130/60	66/29	36/15
(4) Battery packs	246/118	277/131	180/84	92/42	51/22

**Note:** For more details, refer to the Runtime graphs available in [se.com](#).

# Easy UPS On-Line Accessories



Management card: AP9544

## Management cards

- **AP9544:** Network management card for remote monitoring of UPS.
- **VGLS9901I:** Dry contact card to monitor external triggers and initiate actions.
- **SRVSMB001:** Modbus card for communication with PCs through MODBUS protocol.



Battery pack: SRVS72RLBP-9A

## External battery packs

- **SRVS36BP-9A:** External battery pack for 1000 VA tower extended runtime UPS.
- **SRVS72BP-9A:** External battery pack for 2000 VA and 3000 VA tower extended runtime UPS.
- **SRVS240BP-9A:** External battery pack for 6000 VA and 10,000 VA tower extended runtime UPS.
- **SRVS36RLBP-9A:** External battery pack for 1000 VA rack extended runtime UPS.
- **SRVS72RLBP-9A:** External battery pack for 2000 VA and 3000 VA rack extended runtime UPS.
- **SRVS240RLBP-9A:** External battery pack for 6000 VA and 10,000 VA rack extended runtime UPS.



Battery pack: SRVS72BP-9A



Rail kit: SRVSRK2

## Rail kits

- **SRVSRK1:** 700 mm depth rail kit. Can support rack mount installation for standard 19-inch rack equipment with maximum weight of 60 kg.
- **SRVSRK2:** 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 Cartridge (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
SRVS1KI	APCRBCV203	SRVS1KRI	APCRBCV200
SRVS2KI	APCRBCV204	SRVS2KRI	APCRBCV201
SRVS3KI	APCRBCV205	SRVS3KRI	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 [se.com/pcss](http://se.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 [se.com/secure-nmc](http://se.com/secure-nmc).

# Standard Tower Models

## SKU technical specifications

Product feature	SRVS1KI	SRVS2KI	SRVS3KI	SRVS6KI	SRVS10KI
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W	6000 VA/6000 W	10000 VA/10000 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	50 – 60 Hz auto-selecting				
Input connection	IEC 60320 C14		IEC 60320 C20	Hard wire 3-wire (1P+N+G)	
Output					
Nominal output voltage	230 V (220 V, 240 V user selectable)				
Output frequency (Battery mode)	50/60 Hz ± 0.5%			50/60 Hz ± 0.1 Hz	
Topology	Double-conversion on-line				
Waveform type	Pure sine wave				
Efficiency: Double-conversion mode (typical)	Upto 88%			Upto 94%	
Efficiency: ECO mode (typical)	Upto 94%			Upto 97%	
Output connections	(3) IEC 60320 C13	(4) IEC 60320 C13	(6) IEC 60320 C13 (1) IEC 60320 C19	(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 9 Ah (2)	12 V 9 Ah (4)	12 V 9 Ah (6)	12 V 7 Ah (16)	12 V 9 Ah (16)
Battery voltage	24 V	48 V	72 V	192 V	
Typical recharge time	4 hours to recover 90% of capacity			3 hours to recover 90% of capacity	
Runtime at half load (min)	11			12.2	10
Runtime at full load (min)	4			4	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	190 x 685 x 374	190 x 685 x 447
Net weight (kg)	9.3	16.8	26.8	54	65
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 55 dBA	Less than 58 dBA
International Protection Code	IP20				
Conformance					
Regulatory approvals	CE, UKCA, 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	SRVS1KRI SRVS1KRIRK	SRVS2KRI SRVS2KRIRK	SRVS3KRI SRVS3KRIRK	SRVS5KRIRK	SRVS6KRI SRVS6KRIRK	SRVS10KRI SRVS10KRIRK
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W	5000 VA/5000 W	6000 VA/6000 W	10000 VA/10000 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	50/60 Hz auto-selecting					
Input connection	IEC 60320 C14		IEC 60320 C20	Hard wire 3-wire (1P+N+G)		
Output						
Nominal output voltage	230 V (220 V, 240 V user selectable)					
Output frequency	50/60 Hz ± 0.5%			50/60 Hz ± 0.1 Hz		
Topology	Double-conversion on-line					
Waveform type	Pure sine wave					
Efficiency: Double-conversion mode (typical)	Upto 88%			Upto 94%		
Efficiency: ECO mode (typical)	Upto 94%			Upto 97%		
Output connections	(3) IEC 60320 C13	(4) IEC 60320 C13	(6) IEC 60320 C13 (1) IEC 60320 C19	(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 9 Ah (2)	12 V 9 Ah (4)	12 V 9 Ah (6)	12 V 7 Ah (16)	12 V 9 Ah (16)	
Battery voltage	24 V	48 V	72 V	192 V		
External battery pack	-			SRV192RBP-7A	SRV192RBP-9A	
Typical recharge time	4 hours to recover 90% of capacity			3 hours to recover 90% of capacity		
Runtime at half load (min)	11	12	13	15	12.2	10
Runtime at full load (min)	4	4	4	5	4	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	2U	2U	4U		
Dimensions W x H x D (mm)	438 x 86 x 312	438 x 86 x 462	438 x 86 x 632	438 x 176 x 710		
Net weight (kg)	11	18.2	27.6	60	69.5	
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			0 to 1,000 m at 100% load		
Audible noise at 1 m from unit	Less than 50 dBA			Less than 55 dBA	Less than 58 dBA	
International Protection Code	IP20					
Conformance						
Regulatory approvals	CE, UKCA, 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.

# Extended Runtime Tower Models

## SKU technical specifications

Product feature	SRVS1KIL	SRVS2KIL	SRVS3KIL	SRVS6KIL	SRVS10KIL
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W	6000 VA/6000 W	10000 VA/10000 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		IEC 60320 C20	(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 ± 0.1 Hz (On Battery)				
Topology	Double-conversion on-line				
Waveform type	Pure sine wave				
Efficiency: Double-conversion mode (typical)	Upto 88%			Upto 94%	
Efficiency: ECO mode (typical)	Upto 94%			Upto 97%	
Output connections	(3) IEC 60320 C13	(4) IEC 60320 C13	(6) IEC 60320 C13 (1) IEC 60320 C19	(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 (3)	2 strings of 12 V 9 Ah (6)		1 string of 12 V 9 Ah (20)	
Battery voltage	36 V	72 V		240 V	
External battery pack	SRVS36BP-9A	SRVS72BP-9A		SRVS240BP-9A	
Typical recharge time	4 hours to recover 90% of capacity				
Runtime at half load (min)	52	58	32	18	8
Runtime at full load (min)	23	26	14	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 (PM: Power Module, BP: Battery Pack)					
Dimensions W x H x D (mm)( PM)	145 x 223 x 288	145 x 238 x 400		190 x 336 x 374	190 x 336 x 447
Dimensions W x H x D (mm) (BP)	145 x 238 x 400	190 x 336 x 425		190 x 368 x 485	
Net weight (kg)( PM)	4.4	7.1	7.8	13	16.5
Net weight (kg) (BP)	19.6	38		60	
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 55 dBA	Less than 58 dBA
International Protection Code	IP20				
Conformance					
Regulatory approvals	CE, UKCA, IEC 62040-1, IEC 62040-2				
Standard warranty	2-year repair or replace				

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\* 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 Runtime Rack Models

## SKU technical specifications

Product feature	SRVS1KRILRK	SRVS2KRILRK	SRVS3KRILRK	SRVS6KRIL SRVS6KRILRK	SRVS10KRIL SRVS10KRILRK
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W	6000 VA/6000 W	10000 VA/10000 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	50/60 Hz auto-selecting				
Input connection	IEC 60320 C14		IEC 60320 C20	(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 ± 0.5%			50/60 Hz ± 0.1 Hz	
Topology	Double-conversion on-line				
Waveform type	Pure sine wave				
Efficiency: Double-conversion mode (typical)	Upto 88%			Upto 94%	
Efficiency: ECO mode (typical)	Upto 94%			Upto 97%	
Output connections	(4) IEC 60320 C13	(4) IEC 60320 C13	(6) IEC 60320 C13 (1) IEC 60320 C19	(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 (3)	2 strings of 12 V 9 Ah (6)		1 string of 12 V 9 Ah (20)	
Battery voltage	36 V	72 V		240 V	
External battery pack	SRV36RLBP-9A	SRV72RLBP-9A		SRV240RLBP-9A	
Typical recharge time	4 hours to recover 90% of capacity				
Runtime at half load (min)	52	58	32	18	18
Runtime at full load (min)	23	26	14	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)	438 x 172 x 412	438 x 172 x 632		438 x 219.5 x 615	
Net weight (kg)	27	51.7	52	77	79
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 55 dBA	Less than 58 dBA
International Protection Code	IP20				
Conformance					
Regulatory approvals	CE, UKCA, IEC 62040-1, IEC 62040-2				
Standard warranty	2-year repair or replace				

All specifications are subject to change without prior notice.

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**Schneider Electric Industries SAS**

Head Office  
35 rue Joseph Monier  
Rueil Malmaison 92500 - France  
Tel.: +33 (0)1 41 29 70 00

[www.se.com](https://www.se.com)