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.

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APC Easy UPS On-Line standard features and applications

Easy UPS On-Line 1000 – 10,000 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
• 0.8 PF for 3000 VA and below
• Unity power factor VA = Watt for 5000 VA and above
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.

Warranty: 3 years on UPS and 2 years on Battery
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 and 6000 – 10,000 VA/110 – 300 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 (on select models only).

Typical applications

• Small data centers and computer rooms
• Manufacturing facilities
• Telecommunication
• Healthcare IT
• Network Storage Devices
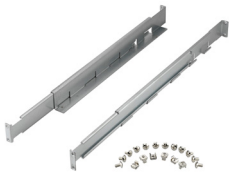
Easy UPS On-Line Accessories

Management cards

Management card: AP9544

- **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 kits

Rail kit: SRVRK1

- **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.

Replacement Battery Cartridges (RBC)

RBC: APCRBCV203

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-TW	-	APCRBCV203	-
SRV2KI-TW	-	APCRBCV204	-
SRV3KI-TW	SRV3KRI-TW	APCRBCV205	APCRBCV202

Runtime estimates at %load (minutes)

Load%	SRV1KI-TW	SRV2KI-TW	SRV3KI-TW SRV3KRI-TW	SRV6KI-TW	SRV10KI-TW
100%	4	4	4	4	3
75%	6	6	7	6	5
50%	11	12	13	12	15
25%	24	26	30	28	23

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	SRV1KI-TW	SRV2KI-TW	SRV3KI-TW
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W
Input			
Nominal input voltage	230 V		
Input voltage range at full load (half load)	160 – 280 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 ± 3 Hz (On Mains) 50/60 Hz ± 0.1 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	(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)	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		
Emergency power off (EPO)	-		
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)	9.3	16.8	26.8
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	BSMI, IEC 62040-1,IEC 62040-2		
Standard warranty	3 years repair or replace (excluding battery) and 2 years for battery		

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 Tower Models

SKU technical specifications

Product feature	SRV6KI-TW	SRV10KI-TW
Power rating	6000 VA/6000 W	10,000 VA/10,000 W
Input		
Nominal input voltage	230 V	
Input voltage range at full load (half load)	176 – 300 V (110 – 300 V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	(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) 50/60 Hz ± 0.1 Hz (On Battery)	
Topology	Double-conversion on-line	
Waveform type	Pure sine wave	
Effciency: Double conversion mode (typical)	Upto 94%	
Efficiency: ECO mode (typical)	Upto 97%	
Output connections	(1) Hard wire 3-wire (1P+N+G)	
Battery and Runtime*		
Battery type	Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof	
Battery capacity	12 V 7 Ah (16)	12 V 9 Ah (16)
Battery voltage	192 V	
Typical recharge time	4 hours to recover 90% of capacity	
Runtime at half load (min)	12	10
Runtime at full load (min)	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)	-	
Physical		
Dimensions W x H x D (mm)	685 x 190 x 374	685 x 190 x 447
Net weight (kg)	54	65
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 55 dBA	
International Protection Code	IP20	
Conformance		
Regulatory approvals	BSMI, IEC 62040-1,IEC 62040-2	
Standard warranty	3 years repair or replace (excluding battery) and 2 years for battery	

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Standard Rack Model

SKU technical specifications

Product feature	SRV3KRI-TW
Power rating	3000 VA/2400 W
Input	
Nominal input voltage	230 V
Input voltage range at full load (half load)	160 – 280 V (110 – 285 V)
Input frequency	40 – 70 Hz auto-selecting
Input connection	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
Effciency: Double conversion mode (typical)	Upto 90%
Efficiency: ECO mode (typical)	Upto 94%
Output connections	(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 (6)
Battery voltage	72 V
Typical recharge time	4 hours to recover 90% of capacity
Runtime at half load (min)	13
Runtime at full load (min)	4
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)	-
Physical	
Rack height (U)	2U
Dimensions W x H x D (mm)	438 x 86 x 632
Net weight (kg)	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	BSMI, IEC 62040-1,IEC 62040-2
Standard warranty	3 years repair or replace (excluding battery) and 2 years for battery

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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