



# APC™

## Easy UPS On-Line 230V for India

### 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 trust.

That's Certainty in a Connected World.



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Life Is On

Schneider Electric

# APC Easy UPS On-Line standard features and applications

## Standard Models

Built-in batteries for Plug-and-Play will provide a ~2 to 4 mins typical battery backup power for the connected equipment at full load.

## 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.

## UXI Models

UXI series has the capability to add 3<sup>rd</sup> party external batteries to get longer runtime, providing flexibility when selecting batteries.

## 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 3kVA and below  
Unity power factor VA=Watt for 5kVA 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 (40Hz–70Hz) ensures clean, uninterrupted power to the loads during power outage.

### High Efficiency

Up to 88-94% efficiency in online double conversion mode and 95 - 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 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.

### Wide Input Voltage Range

1-3kVA - 120-280VAC, 5 - 20kVA - 110-300VAC  
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)

### 1:1, 3:1 input hard-wire options

Product can be wired for 3-PH or 1-PH input (10 kVA, 15kVA and 20kVA UXI models only).

### Typical applications

- Small data centers and computer rooms
- Manufacturing facilities
- Telecommunication
- Healthcare IT
- Network Storage Devices

# Easy UPS On-Line Accessories



Management card: APV9601

## Management cards

- **APV9601:** 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: SRV72RBP-9A

## Battery packs

- **SRV72RBP-9A/SRV72RBP-INX:** External battery pack for 2kVA and 3kVA extended run UPS
- **SRV240RBP-9A/SRV240RBP-INX:** External battery pack for 5kVA, 6kVA and 10kVA extended run UPS



Rail kit: SRVRK2

## Rail kits

- **SRVRK1:** 700 mm depth rail kit. Can support rack mount installation for standard 19 inch rack equipment with maximum weight of 60 kgs
- **SRVRK2:** 900 mm depth rail kit. Can support rack mount installation for standard 19 inch rack equipment with maximum weight of 100 kgs



Parallel kit: SRVPK001

## Parallel kit

- **SRVPK001:** Parallel kit for 5, 6 and 10kVA (1:1) models to connect up to 3 UPSs in parallel for capacity addition.
- **SRVPK002:** Parallel kit for 10, 15 and 20kVA (3:1) models to connect up to 3 UPSs in parallel for capacity addition.

## Runtime estimates at half and full load for extended run time models (minutes)

Number of Battery Packs	SRV2KRIL-IN	SRV3KRIL-IN SRV3KRIL-INX	SRV5KRIL-IN	SRV6KRIL-IN SRV6KRIL-INX	SRV10KRIL-IN
UPS at half/full loads	800/1600	1200/2400	2500/5000	3000/6000	5000/10000
(1) Battery pack (default)	48/22	28/13	21/8	16/6	8/2
(2) Battery packs	141/52	74/30	49/21	39/16	21/8
(3) Battery packs	190/86	116/54	80/34	64/27	34/14
(4) Battery packs	244/117	144/65	113/48	90/39	48/21

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 Models

## SKU technical specifications

Product feature	SRV1KL-IN SRV1KL-INX	SRV2KL-IN	SRV3KL-IN
Power rating (VA/Watt)	1000VA/800W	2000VA/1600W	3000VA/2400W
Input			
Nominal input voltage	230V		
Input voltage range at full load (half load)	160 – 280 V (110-280 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 online		
Waveform type	Pure sinewave		
Efficiency: Double conversion mode (typical)	Upto 88%		Upto 90%
Efficiency: ECO mode (typical)	Upto 95%		
Output connections	(4) India socket	(4) India socket (1) Hardwire (1 PH+N+G)	
Battery and Runtime*			
Battery type	Sealed maintenance free valve regulated lead acid battery (leak proof)		
Battery capacity	3 x 12V 7Ah	4 x 12V 9Ah	6 x 12V 9Ah
Battery voltage	36V	48V	72V
Typical recharge time	4 hours to recover 90% of capacity		
Runtime at half load (mins)	12	10	11
Runtime at full load (mins)	4	2	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 86.2 x 412.2	438 x 88 x 462	438 x 88 x 632
Net weight (kg)	13.6	19	28
Color	RAL7010		
Environment			
Operating temperature	0°C to 40°C		
Relative humidity	0 to 95% non-condensing		
Operating elevation	0 to 2,000m at 100% load		
Audible noise at 1m from unit	Less than 50dB		
Protection class	IP 20		
Conformance			
Regulatory approvals	BIS		
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 Run Models

## SKU technical specifications

Product feature	SRV2KRIL-IN	SRV3KRIL-IN SRV3KRIL-INX	SRV5KRIL-IN	SRV6KRIL-IN SRV6KRIL-INX	SRV10KRIL-IN
Power rating (VA/Watt)	2000VA/1600W	3000VA/2400W	5000VA/5000W	6000VA/6000W	10000VA/10000W
Input					
Nominal input voltage	230V				
Input voltage range at full load (half load)	160 - 280 V (110 - 280 V)		176 - 300 V (110 - 300 V)		
Input frequency	40-70 Hz auto-selecting				
Input connection	(1) Hardwire three wire (1 PH+N+G)				
Output					
Nominal output voltage	230V (220V, 240V user selectable)				
Output frequency	50/60 Hz $\pm$ 3 Hz (On Mains) 50/60 Hz $\pm$ 0.1 Hz (On Battery)				
Topology	Double-conversion online				
Waveform type	Pure sinewave				
Efficiency: Double conversion mode (typical)	Upto 88%	Upto 90%	Upto 93%		
Efficiency: ECO mode (typical)	Upto 95%		Upto 97%		
Output connections	(3) India socket (1) Hardwire (1 PH+N+G)		(1) Hardwire (1 PH+N+G)		
Battery and Runtime*					
Battery type	Sealed maintenance free valve regulated lead acid battery, leak proof				
Battery capacity	2 x 6 x 12V, 9Ah		1 x 20 x 12V, 9Ah		
Battery voltage	72V		240V		
External battery pack	SRV72RBP-9A		SRV240RBP-9A		
Typical recharge time	4 hours to recover 90% of capacity				
Runtime at half load (mins)	47	29	24	18	8
Runtime at full load (mins)	19	10	8	6	2
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)	4U		5U		
Dimensions W x H x D (mm) (power module)	438 x 86 x 462		438 x 86 x 615		
Dimensions W x H x D (mm) (battery pack)	438 x 86 x 632		438 x 133 x 606		
Net weight (kg) (power module)	9.3	10.1	15		16
Net weight (kg) (battery pack)	40		63		
Color	RAL7010				
Environment					
Operating temperature	0°C to 40°C				
Relative humidity	0 to 95% non-condensing				
Operating elevation	0 to 2,000m at 100% load				
Audible noise at 1m from unit	Less than 50dB		Less than 60dB		
Protection class	IP20				
Conformance					
Regulatory approvals	BIS				
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.

# UXI Models

## SKU technical specifications

Product feature	SRV1KUXI-IN SRV1KUXI-INX	SRV2KUXI-IN	SRV3KUXI-IN SRV3KUXI-INX	SRV5KL-IN* SRV5KUXI-IN	SRV6KL-IN* SRV6KL-INX* SRV6KUXI-IN
Power rating (VA/Watt)	1000VA/800W	2000VA/1600W	3000VA/2400W	5000VA/5000W	6000VA/6000W
Input					
Nominal input voltage	230V				
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	(1) Hardwire three wire (1 PH+N+G)			
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 online				
Waveform type	Pure sinewave				
Efficiency: Double conversion mode(typical)	Upto 88%		Upto 90%		Upto 94%
Efficiency: ECO mode(typical)	Upto 95%				Upto 97%
Output connections	(4) India socket	(3) India socket (1) Hardwire three wire (1 PH+N+G)		(1) Hardwire three wire (1 PH+N+G)	
Battery					
Battery type	No internal battery - uses external battery				
Battery charger capacity	1-8A (selectable) for UXI models & 1-4A (selectable) for non-UXI models*				
Battery Voltage	24V	72V		192 <sup>1</sup> - 240V(selectable)	
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 86.2 x 332	438 x 86.2 x 462.2			438 x 86.5 x 615
Net weight (kg)	7.2	9.8	10.1	15	
Color	RAL7010				
Environment					
Operating temperature	0°C to 40°C				
Relative humidity	0 to 95% non-condensing				
Operating elevation	0 to 2,000m at100% load			0 to 1,000m at100% load	
Audible noise at 1m from unit	Less than 50dB			Less than 60dB	
Protection class	IP20				
Conformance					
Regulatory approvals	BIS				
Standard warranty	2 years repair or replace				

All specifications are subject to change without prior notice.

1 Power derates to 80% of total capacity.

# UXI Models

## SKU technical specifications

Product feature	SRV10KUXI-IN SRV10KUXI-INX	SRV15KUXI-IN	SRV20KUXI-IN
Power rating (VA/Watt)	10000VA/10000W	15000VA/15000W	20000VA/20000W
Input			
Nominal input voltage	230V (PH-N) / 400V (PH-PH) (default)		
Input voltage range at full load (half load)	176 - 300 / 305 - 520 V (110 - 176 / 190 - 476 V)		
Input frequency	40-70 Hz auto-selecting		
Input connection	(1) Hardwire three wire (1 PH+N+G) / (1) Hardwire five-wire (3 PH+N+G)		
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 online		
Waveform type	Pure sinewave		
Efficiency: Double conversion mode(typical)	Upto 94%		
Efficiency: ECO mode(typical)	Upto 97%		
Output connections	(1) Hardwire three wire (1 PH+N+G)		
Battery			
Battery type	No internal battery - uses external battery		
Battery charger capacity	3-13A (Selectable)		
Battery Voltage	$\pm$ 96 <sup>1</sup> - 120V (selectable)		
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)	3U		
Dimensions W x H x D (mm)	130.6 x 438 x 689.4		
Net weight (kg)	25	29	29
Color	RAL7010		
Environment			
Operating temperature	0°C to 40°C		
Relative humidity	0 to 95% non-condensing		
Operating elevation	0 to 1,000m at 100% load		
Audible noise at 1m from unit	Less than 60dB		
Protection class	IP20		
Conformance			
Regulatory approvals	BIS	CE,IEC 62040-1,IEC 62040-2	
Standard warranty	2 years repair or replace		

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<sup>1</sup> Power derates to 80% of total capacity.

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