

SKU technical specifications

APC Easy UPS On-Line, SRV Series, with External Batteries 1kva to 10KVVA Rack mount 5U, 230V, Hard wire 3 wire(1P+N+E) outlet, Intelligent Card Slot, LCD, Extended Runtime, W/O rail kit



PS On-Line Accessories

1. Management cards
2. Battery packs
3. Rail kits
4. Parallel kit

Key Features

- I. Convenience
- II. Manageability
- III. Protection
- IV. Compatibility
- V. Energy Management
- VI. Enhanced Security
- VII. Enhanced Performance
- VIII. Enhanced User Experience and Troubleshooting

Applications

1. **Standard Models** : Built-in batteries
2. **Extended-Run Models** : Add external battery packs to scale runtime minutes to hours, for mixed load applications.
3. **UXI Models** : capability to add third-party external batteries to get longer runtime, providing flexibility when selecting batteries.

Standard Features

- **True on-line double-conversion** : Ensures clean, reliable power supply to essential loads from brownouts
- **High Power Factor** : 0.8 PF for 3000 VA and below Unity power factor
- **Built-in Automatic Bypass** : Ensures seamless power to the load
- **High Efficiency** : Up to 88 – 94% efficiency in on-line 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,
- **Wide Input Voltage Range** : 1000 – 3000 VA/110 – 285 Vac, 5000 – 20,000 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.
- **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).
- **input hard-wire options** : Product can be wired for 3-PH or 1-PH input (10,000 VA, 15,000 VA and 20,000 VA UXI models only).

UXI Models

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Product feature	SRV1KUXI-IN SRV1KUXI-INX	SRV2KUXI-IN	SRV3KUXI-IN SRV3KUXI-INX	SRV5KL-IN* SRV5KUXI-IN	SRV6KL-IN* SRV6KL-INX* SRV6KUXI-IN
Power rating	1000 VA/800 W	2000 VA/1600 W	3000 VA/2400 W	5000 VA/5000 W	6000 VA/6000 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	(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 ± 0.5 Hz (On Battery)				
Topology	Double-conversion on-line				
Waveform type	Pure sine wave				
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) Hard wire 3-wire (1P+N+G)		(1) Hard wire 3-wire (1P+N+G)	
Battery					
Battery type	No internal battery – uses external battery				
Battery charger capacity	1 – 8 A (selectable) for UXI models and 1 – 4 A (selectable) for non-UXI models*				
Battery Voltage	24 V	72 V		192 ¹ – 240 V(selectable)	
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				
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	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 60 dBA	
International protection code	IP20				
Conformance					
Regulatory approvals	BIS				
Standard warranty	2 years repair or replace				

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UXI Models



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Product feature	SRV10KUXI-IN/ SRV10KUXI-INX	SRV15KUXI-IN	SRV20KUXI-IN
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 ± 0.1 Hz (On Battery)		
Topology	Double-conversion on-line		
Waveform type	Pure sine wave		
Efficiency: 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			
Battery type	No internal battery – uses external battery		
Battery charger capacity	3 – 13 A (selectable)		
Battery Voltage	± 96 ¹ – 120 V (selectable)		
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)	3U		
Dimensions W x H x D (mm)	130.6 x 438 x 689.4		
Net weight (kg)	25	29	29
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		
International Protection Code	IP20		
Conformance			
Regulatory approvals	BIS	CE, IEC 62040-1, IEC 62040-2	
Standard warranty	2 years repair or replace		

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