

Amplon RT Series UPS

Single-phase, 5-10 kVA, 230 Vac

Powering Your Vision, Protecting Your Future

Introducing the Amplon RT Series 5-10 kVA UPS: Compact yet powerful, it provides a unity output power factor and top efficiency, with up to 95.5% AC-AC efficiency. It also features Li-ion battery compatibility for enhanced density and sustainability. With optional complete power solutions like the Maintenance Bypass Breaker and Rack Remote Power Panel integration, it ensures seamless operation for critical applications.



Efficiency and Reliability

- Best-in-class AC-AC efficiency of up to 95.5% and 99% in ECO mode for lower energy costs
- Wide input voltage range for operation in harsh environments and extended battery life
- AC-start function enables the UPS to switch on without battery connection
- Hot-swappable batteries for continuous operation during replacements

Availability and Flexibility

- Unity output power factor ensures no de-rating with loads
- Up to 4 units parallel capacity for redundancy and load expansion
- Programmable load bank disconnects non-critical loads during blackouts, saving battery power for critical loads
- VRLA and Li-ion External Battery Cabinet (EBC) for scalable runtime
- Extended Runtime models support flexible battery quantity, reducing maintenance costs
- The Power Distribution Box (PDB) and Maintenance Bypass Breaker (MBB) come standard with Standard Runtime models, simplifying configuration

Manageability

- User-friendly LCD display for excellent local management
- Intelligent battery management for extended life and maximum performance
- Free UPS management software and multiple communication interfaces ensure seamless remote monitoring and device protection



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SME



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Technical Specifications

Model	RT-5K	RT-6K	RT-8K	RT-10K
Topology	Online double-conversion			
Power Rating	5 kVA 5 kW	6 kVA 6 kW	8 kVA 8 kW	10 kVA 10 kW
Parallel Configuration	Up to 4 units			
INPUT				
Nominal Voltage	200/208/220/230/240 Vac, 1P2W+PE			
Voltage Range	175-280 Vac (100% load); 100-175 Vac (with derating to 50-100% load)			
Frequency Range	40-70 Hz			
Total Harmonic Distortion (THDi)	< 3%			
Power Factor	> 99% (100% load)			
Connection	Input terminal			
OUTPUT				
Nominal Voltage	200/208/220/230/240 Vac, 1P2W+PE			
Voltage Regulation	±1%			
Frequency	50/60 ± 0.05 Hz			
Total Harmonic Distortion (THDv)	< 2% (linear load), < 4% (non-linear load)			
Power Factor	1			
Connection	Standard ⁽¹⁾	C13 x6, C19 x2, Terminal x1, Programmable C19 outlet x1		C13 x6, C19 x4, Terminal x1, Programmable C19 outlet x1
	Extended ⁽¹⁾	Terminal x1, Programmable terminal x1		
Overload Capability ⁽²⁾	106-125%: 5 mins; 126-150%: 1 min; > 150%: 500 ms			
Current Crest Ratio	3:1			
EFFICIENCY				
Online Mode	Up to 95.5%			
Eco Mode	Up to 99%			
BATTERY				
Battery Type	VRLA/Lithium-ion			
Nominal Voltage	Standard	192 Vdc	240 Vdc	
	Extended	144 ⁽³⁾ , 192-264 Vdc		
Charge Current	Standard	1 A (default), up to 8 A		1.5 A (default), up to 8 A
	Extended	Up to 8 A		
COMMUNICATION INTERFACE				
Display	Graphical LCD display with LED indicators			
Port	USB, RS-232, RS-485, Mini Slot, REPO, Input dry contact x1, Output dry contact x3			
PHYSICAL				
Dimensions (W x D x H)	Standard	440 x 665 x 176 mm		440 x 750 x 218 mm
	Extended	440 x 430 x 88.2 mm		440 x 565 x 88.2 mm
Net Weight	Standard	54 kg		85.5 kg
	Extended	10.9 kg		15.2 kg
ENVIRONMENT				
Operating Temperature	0 to 55°C (45 to 55°C de-rating to 75% load)			
Humidity	5-95% (non-condensing)			
Audible Noise	< 48 dBA		< 50 dBA	
Altitude	0-3000 m (derating 1%/100 m from 1000-3000 m)			
Ingress Protection	IP20			
CONFORMANCE				
Safety	CE, UKCA, TISI, RCM			
EMC	IEC 62040-2			
Performance	IEC 62040-3			
Sustainability	RoHS, REACH			

(1) Standard model: built-in batteries; Extended model: capability to add external battery packs

(2) Operating temperature < 32°C

(3) Derating to 70% load

All specifications are subject to change without prior notice.



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