

Delta UPS Amplon Family

RT Series, Single-Phase 5/6/8/10 kVA, Three-Phase 10/15/20 kVA

Powering Your Vision, Protecting Your Future

Introducing the Amplon RT Series 5-20 kVA UPS: Compact yet powerful, it provides a unity output power factor and top efficiency, with up to 96.5% 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 96.5% 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
- Supports flexible battery quantity, reducing maintenance costs

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



IT



Telecom



Industrial



Transportation



Financial



Government



SME



Retail



Technical Specifications

Model	RT-5K	RT-6K	RT-8K	RT-10K	RT-10K-3P	RT-15K-3P	RT-20K-3P
Topology	Online double-conversion						
Power Rating	5 kVA 5 kW	6 kVA 6 kW	8 kVA 8 kW	10 kVA 10 kW		15 kVA 15 kW	20 kVA 20 kW
Parallel Configuration	Up to 4 units						
INPUT							
Nominal Voltage	200/ 208/ 220/ 230/ 240 Vac, 1P2W+PE				380/ 400/ 415 Vac. 3P4W+PE		
Voltage Range	175-280 Vac (100% load); 100-175 Vac (with derating to 50-100% load)				305-485 Vac (100% load); 138-305 Vac (with derating to 40-100% load)		
Frequency Range	40-70 Hz						
Total Harmonic Distortion (THDi)	< 3%						
Power Factor	> 99% (100% load)						
Connection	Input terminal				Input terminal x1, Bypass input terminal x1		
OUTPUT							
Nominal Voltage	200/ 208/ 220/ 230/ 240 Vac, 1P2W+PE				380/ 400/ 415 Vac. 3P4W+PE or 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	Terminal x1, Programmable terminal x1				Terminal x1		
Overload Capability	106-125%: 2 mins; 126-150%: 1 min; > 150%: 500 ms 106-125%: 2 mins; 126-150%: 30 secs; > 150%: 200 ms						
Current Crest Ratio	3:1						
EFFICIENCY							
Online Mode	Up to 95.5%				Up to 96%	Up to 96.5%	
Eco Mode	Up to 99%						
BATTERY							
Battery Type	VRLA/ Lithium-ion						
Nominal Voltage	144 ⁽¹⁾ , 192-264 Vdc					±144 ⁽¹⁾ , ±192-±264 Vdc	
Charge Current	Up to 8 A						
COMMUNICATION INTERFACE							
Display	Graphical LCD display with LED indicators						
Port	USB, RS-485, Mini Slot, REPO, Input dry contact x1, Output dry contact x3						
PHYSICAL							
Dimensions (W x D x H)	440 x 430 x 88.2 mm		440 x 565 x 88.2 mm		440 x 649 x 88.2 mm	440 x 760 x 88.2 mm	
Net Weight	10.9 kg		15.2 kg		16.6 kg	22 kg	22.5 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			< 54 dBA	
Altitude	0-3000 m (derating 1%/100 m from 1000-3000 m)						
Ingress Protection	IP20						
CONFORMANCE							
Safety	CE, UKCA, UL/cUL, TISI, RCM, BIS, BSMI						
EMC	IEC 62040-2						
Performance	IEC 62040-3						
Sustainability	RoHS, REACH, Energy Star						

(1) Derating to 70% load

All specifications are subject to change without prior notice.



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