

The power behind competitiveness

Delta UPS - Amplon Family

RT Series, Single Phase, 120V
1/1.5/2/3 kVA

Reliable power with greater energy-saving features

The Amplon RT 1-3kVA series is an online double-conversion UPS providing consistent sine-wave power to your critical equipment. It supports personal computers, networks, servers, VoIP and telecommunications. The Amplon RT 1-3kVA series features an output power factor of 0.9 and best-in-class AC-AC efficiency up to 93% resulting in greater energy savings. Optional external battery pack can be connected for longer backup time to keep your applications safe and running smoothly at all times.

Availability & Flexibility

- True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection
- AC-start function allows the UPS to be switched on without connecting to a battery
- Automatic fan speed control significantly reduces audible noise, and maximizes system efficiency
- Fan failure detection sends early warnings to facilitate predictive maintenance of UPS
- Hot swappable batteries ensure continuous operation even when batteries are being replaced
- External Battery Cabinet (EBC) are optional for scalable runtime
- Programmable load bank disconnects non-critical loads when a blackout occurs and reserves more battery power for critical loads
- The Maintenance Bypass Breaker (MBB) is optional for easy UPS replacement without powering down critical systems
- Compact 2U design with convertible rack and tower configuration for flexible deployment



Manageability

- Intelligent battery management to extend battery life and maximize battery performance. The battery aging detection monitors battery status for predictive maintenance, and the 3-stage charging mechanism keeps the battery from continuous float charging during the intermission stage to prolong battery life
- Excellent local management through a user-friendly graphical and multi-lingual LCD display
- Various types of communication interfaces, such as REPO/ROO for remote management, and in-built dry contacts for monitoring and notification of system operation conditions

Low Total Cost of Ownership

- Output power factor up to 0.9 to provide more real power to critical loads
- High AC-AC efficiency of up to 93% and 98.5% in ECO mode lowers energy costs
- Wide input voltage range and protection against over voltage prolongs battery life
- Automatic fan speed control maximizes system efficiency, significantly reduces audible noise, and prolongs battery life



Server



Telecom



Industrial



Network



VoIP



Storage



Medical



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Technical Specification

Model		RT-1K	RT-1.5K	RT-2K	RT-3K
Power Rating		1kVA/0.9kW	1.5kVA/1.35kW	2kVA/1.8kW	3kVA/2.7kW
Input	Voltage range	110/115/120 Vac: 100 ~ 150 Vac (full load); 55 ~ 100 Vac (50 ~ 100% load) 100 Vac: 90 ~ 150 Vac (full load); 55 ~ 90 Vac (50 ~ 100% load)			
	Frequency	40 ~ 70 Hz			
	Power Factor	> 0.99 (full load)			
	Current Harmonic Distortion	< 5%			
	Input Connection	NEMA 5-15P, power cord length 10ft	NEMA 5-15P, power cord length 10ft	NEMA L5-20P, power cord length 10ft	NEMA L5-30P, power cord length 10ft
Output	Power Factor	0.9			
	Voltage*	100/110/115/120 Vac			
	Voltage Regulation	± 1%			
	Frequency	50/60 Hz ± 0.05 Hz			
	Voltage Harmonic Distortion	< 2% (linear load); ≤ 4% (non-linear load)			
	Overload Capability	<105%: Continuous; 105 ~125%: 2 min.; 125 ~ 150%: 30 sec.; > 150%: 500 ms			
	Receptacle	NEMA 5-15R x 8		NEMA 5-15/20R x 8, L5-20R x 1	NEMA 5-15/20R x 8, L5-30R x 1
Efficiency***	AC-AC	Up to 91.5%	Up to 92.5%	Up to 93%	Up to 93%
	ECO Mode	Up to 98%	Up to 98.5%	Up to 98.5%	Up to 98.5%
Battery	Battery Voltage	24 Vdc	36 Vdc	48 Vdc	72 Vdc
	Typical Backup Time	4 min. (full load); 6.5 min. (75% load)			
Audible Noise		40dB	40dB	45 dB	45 dB
Display		Graphical and multi-lingual LCD			
Communication Interfaces		Mini Slot x 1, RS-232 Port x 1, USB Port x 1, REPO/ROO, Dry Contact x 4			
Dimensions (W x D x H)		17.3 x 13.2 x 3.5 inch (440 x 335 x 88 mm)	17.3 x 16.9 x 3.5 inch (440 x 430 x 88 mm)	17.3 x 16.9 x 3.5 inch (440 x 430 x 88 mm)	17.3 x 22.2 x 3.5 inch (440 x 565 x 88 mm)
Weight		27.3 lbs (12.4 kg)	39.0lbs (17.7 kg)	45.8 lbs (20.8 kg)	66.1 lbs (30 kg)
Environment	Operating Temperature	32 ~ 122 °F (0-50 °C)****			
	Relative Humidity	5 ~ 95% (non-condensing)			

* On 100/110/115 Vac, to comply with UL, UPS capacity will be de-rated due to power cord's current limitation

** Power loss from the input and output power cords is not included

*** When the operating temperature is at 40 ~ 50° C (104 ~ 122° F), the UPS will be de-rated to 80% of its capacity

All specifications are subject to change without prior notice.



Delta's Manufacturing System is Certified by ISO 9001 and ISO 14001 Standards



IACQ Certificate of Hazardous Substance Process Management

