

Delta UPS–Amplon Family

RT Series, Single Phase, 208V
5/6/8/10 kVA

A total solution for reliable power with high availability and performance

The Amplon RT Series 5-10kVA is an online double-conversion UPS that provides an output power factor of up to unity to enable the maximum capacity for more critical loads. Outstanding energy savings can be achieved based on an AC-AC efficiency of up to 95.5% and 99% in ECO mode. The Amplon RT Series 5-10kVA offers a total solution with the Standard Runtime models including an in-built battery, power distribution box and maintenance bypass breaker. It provides a complete and practical package that can be used on critical loads right away. This series offers advanced performance for various applications such as servers, data centers, networks, VoIP and telecommunications. The parallel capacity of up to four units provides higher reliability for mission critical applications.

Availability & Flexibility

- True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection
- Up to four units parallel capacity allows redundancy and load expansion; Extended Runtime models only
- Component life prediction, such as fan life prediction, can monitor operating conditions before failure or downtime occurs
- Automatic fan speed control maximizes system efficiency and significantly reduces audible noise; fan failure detection sends an early warning when the fan stops
- VRLA and Li-ion External Battery Cabinet (EBC) are optional for scalable runtime
- Li-ion battery compatibility and flexible battery quantity enable better usability and convenience
- AC-start function allows the UPS to be switched on without connecting to a battery
- Programmable load bank disconnects non-critical loads when a blackout occurs and reserves more battery power for critical loads



Manageability

- Intelligent battery management, including battery aging detection to evaluate battery life, and 3-stage charging functionality to reduce recharge time and extend battery life
- Excellent local management through a user-friendly graphical and multi-lingual LCD display
- Various types of communication interface such as dry contacts and REPO/ROO for monitoring and manageability
- Event logs are recorded with actual time (RTC) for better management and control

Low Total Cost of Ownership

- Output power factor up to unity guarantees no de-rating with loads and provides permanent 100% kW
- High AC-AC efficiency of up to 95.5% and 99% in ECO mode lowers energy costs
- Wide input voltage range and protection against over voltage prolongs battery life
- The Power Distribution Box (PDB) and Maintenance Bypass Breaker (MBB) which are default to Standard Runtime models enable simple configuration
- The Maintenance Bypass Breaker (MBB) is available for easy UPS replacement without powering down critical systems
- Automatic fan speed control maximizes system efficiency, significantly reduces audible noise, and prolongs battery life
- Fan failure detection sends early warnings to facilitate predictive maintenance of UPS



Server



Network



Banking



POS



Security

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Technical Specifications

Model		RT-5K	RT-6K	RT-8K	RT-10K
Power Rating	220/230/240V	5kVA/5kW	6kVA/6kW	8kVA/8kW	10kVA/10kW
	200 ¹⁾ /208V	5kVA/4.5kW	6kVA/6kW	8kVA/8kW	10kVA/10kW
Input	Voltage Range Frequency Power Factor iTHD	100 ~ 280V, 100 ~ 175V with linear de-rating 50 ~ 100% 40 ~ 70 Hz > 0.99 (full load) <3%			
Input Connection	Standard Runtime Model Extended Runtime Model	NEMA L6-30P Terminal	Terminal		
Output	Power Factor	Unity ²⁾			
	Voltage	200 ¹⁾ /208/220/230/240 Vac			
	Frequency	50/60 Hz			
	Voltage Harmonic Distortion	≤ 2% (linear load)			
	Overload Capability	≤105%: Continuous; 105~125%: 2mins, 125-150%: 30secs, >150%: 500ms			
Receptacle	Standard Runtime Model	L6-20 x 2, L6-30 x 2 Load bank:L6-30 x 1	L6-20 x 2, L6-30 x 1, Terminal x 1, Load bank: L6-30 x 1	L6-20 x 2, L6-30 x 2, Terminal x 1, Load bank:L6-30 x 1	
	Extended Runtime Model	Terminal x 1, Load bank:Terminal x 1			
Efficiency	AC-AC ECO Mode	Up to 95.5% Up to 99%			
Battery Voltage	Standard Runtime Model	192 Vdc	192 Vdc	240 Vdc	240 Vdc
	Extended Runtime Model	144 Vdc ³⁾ , 192~264Vdc			
Charger Current	Standard Runtime Model	1A (default)		1.5A (default)	
	Extended Runtime Model	Up to 8A		Up to 8A	
Discharge Time (Standard Runtime Model)	Full load	5 min.	3 min.	5 min.	3.5 min.
	75% load	7.5 min.	5.5 min.	9 min.	6 min.
Recharge Time	Standard Runtime Model	3 hrs to 90%			
Audible Noise		48 dB		52 dB	
Display		Graphical and multi-lingual LCD			
Communication Interfaces		Mini Slot x 1, RS-232 Port x 1, RS-485 Port x 1, USB Port x 1, REPO/ROO, Dry Contact x 4			
Dimensions (W x D x H)	Standard Runtime Model	17.3 x 26.2 x 6.9 inch (440 x 665 x 176 mm)		17.3 x 29.5 x 8.6 inch (440 x 750 x 218 mm)	
	Extended Runtime Model	17.3 x 16.9 x 3.3 inch (440 x 430 x 88 mm)		17.3 x 22.2 x 3.3 inch (440 x 565 x 88 mm)	
	VRLA Battery Pack	17.3 x 22.2 x 3.5 inch (440 x 565 x 88 mm)		17.3 x 25.6 x 5.1 inch (440 x 650 x 130 mm)	
	Li-ion Battery Pack* *Only applicable to Extend Runtime Model	17.3 x 25.4 x 3.5 inch (440 x 646 x 88 mm)			
Weight	Standard Runtime Model	121.2 lbs (55 kg)	121.2 lbs (55 kg)	189.6 lbs (86 kg)	189.6 lbs (86 kg)
Environment	Operating Temperature Relative Humidity	32 ~ 131°F (0 ~ 55°C) 5 ~ 95% (non-condensing)			

All specifications are subject to change without prior notice.

- 1) Under 200V, de-rating to 90% load
- 2) Under 200/208V, 5kVA standard runtime model O/P PF = 0.9
- 3) De-rating to 70% load
- 4) Full load @ 32 ~ 104°F (0 ~ 40°C), de-rating to 75% @ 104 ~ 131°F (40 ~ 55°C)



User-friendly LCD Panel



Tower Configuration



Rear Panel



Facility Monitoring Software -
InfraSuite Device Master



Delta offers a full range of UPS solutions from 600 VA to 4000 kVA to fulfill your power security needs.



2007~ 2008 Forbes Asia's
Fabulous 50



2009 Frost & Sullivan
Green Excellence Award for
Corporate Leadership



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



IECQ Certificate of
Hazardous Substance
Process Management

