

# Delta UPS–Amplon Family

## RT Series

5/6/8/10 kVA, Single Phase; 15/20 kVA, Three Phase

### A total solution for reliable power with high availability and performance

The Amplon RT Series 5-20kVA is an online double-conversion UPS that provides best-in-class designs in compact 2U size, high power density, system efficiency, and versatile configurations to fulfill customers' requirements. Unity output power factor maximizes capacity for more critical loads, while outstanding energy savings can be achieved based on the AC-AC efficiency of up to 96.5% and 99% in ECO mode. In addition, RT Series 5-20kVA UPS is the first in the market that offers standard Li-ion external battery cabinets, which deliver better power density and sustainability. Along with the parallel capacity of up to four units, the new series is the ideal small power UPS for mission-critical applications, such as servers, data centers, telecommunications, and manufacturing.

#### Availability & Flexibility

- True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection
- Wide input voltage range allows the UPS to operate in harsh electrical environments and extends battery life
- 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
- Up to four units parallel capacity allows redundancy and load expansion (Apply to 5-10kVA)
- Hot swappable batteries ensure continuous operation even when batteries are being replaced
- VRLA and Li-ion External Battery Cabinet (EBC) are available for scalable runtime
- Extended Runtime models support flexible battery quantity for battery investment optimization. And when one battery fails, it could be removed without replacing the entire battery string, reducing maintenance cost and efforts
- The Power Distribution Box (PDB) and Maintenance Bypass Breaker (MBB), which are default to RT 5-10kVA Standard Runtime models, enable simple configuration
- The Maintenance Bypass Breaker (MBB) is optional for easy UPS replacement without powering down critical systems
- The rRPP (Rack Remote Power Panel), which can be integrated with standard server racks, simplifies power output distribution and power monitoring
- Common battery configuration is supported in RT 15/20kVA parallel mode to save installation space and additional battery costs



#### Efficiency & Reliability

- Unity output power factor guarantees no de-rating with loads and provides permanent 100% kW
- Best-in-class AC-AC efficiency of up to 96.5% and 99% in ECO mode lowers energy costs
- Automatic fan speed control maximizes system efficiency and significantly reduces audible noise and prolongs battery life
- Fan failure detection sends early warnings to facilitate predictive maintenance of UPS

#### 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, including USB, RS-232, and RS-485 ports, mini slot, REPO/ROO for remote management, and in-built dry contacts for monitoring and notification of system operation conditions
- UPS management software such as ShutdownAgent and InfraSuite Device Manager allow users to monitor UPS status and protect critical devices



Server



Network



Banking



POS



Security

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### Technical Specifications

Model	RT-5K	RT-6K	RT-8K	RT-10K	RT-15K3P	RT-20K3P	
Power Rating	5kVA/5kW	6kVA/6kW	8kVA/8kW	10kVA/10kW	15kVA/15kW	20kVA/20kW	
Input	Voltage Range	100 ~ 280V (Single phase, 2-wire + G) 100 ~ 175V with linear de-rating 50 ~ 100%			138 ~ 485V (Three phase, 4-wire + G) 138 ~ 305V with linear de-rating 40 ~ 100%		
	Frequency	40 ~ 70 Hz					
	Power Factor	> 0.99 (full load)					
	iTHD	< 3%					
	Input connection	Input terminal x 1				Input terminal x 1, Bypass Input terminal x 1	
Output	Power Factor	Unity					
	Voltage	200, 208, 220, 230, 240 Vac (Single phase)			380/400/415 Vac (Three phase), or 220/230/240 Vac (Single phase)		
	Frequency	50/60Hz ±0.05Hz					
	Voltage Harmonic Distortion	≤ 2% (linear load)					
	Overload Capability	≤ 105%: continuous; 106 ~ 125%, 5 min.; 126 ~ 150%, 1 min.; > 150%: 500ms			≤ 105%: continuous; 106 ~ 125%: 2 min.; 126 ~ 150%: 30 sec; > 150%: 200ms		
Receptacle	Standard Runtime Model	C13x6, C19x2, Terminal x 1 Load bank: C19x1		C13x6, C19x4, Terminal x 1 Load bank: C19x1		Terminal x 1	
	Extended Runtime Model	Terminal x 1 Load bank: Terminal x 1					
Efficiency	AC-AC	Up to 95.5%				Up to 96.5%	
	ECO Mode	Up to 99%					
Battery Voltage	Standard Runtime Model	192 Vdc	192 Vdc	240 Vdc	240 Vdc	±144 Vdc*, ±192 ~ 264 Vdc	
	Extended Runtime Model	144 Vdc*, 192 ~ 264 Vdc					
Charger Current	Standard Runtime Model	1A (default)		1.5A (default)		Up to 8A	
	Extended Runtime Model	Up to 8A					
Typical Backup Time (VRLA bat.)	Standard	75% load	7.5 min.	5.5 min.	9 min.	6 min.	
	Extended Runtime Model	Full load	5 min.	3 min.	5 min.	3.5 min.	
	Depending on different configurations required by customers						
Audible Noise	48 dB		50 dB		54 dB		
Display	Graphical and multi-lingual LCD						
Communication Interfaces	MINI Slot x 1, Parallel Port** x 2, USB Port x 1, RS232 Port*** x 1, RS485 Port x 1, REPO/ROO Port x 1, Dry Contact x 4						
Dimensions (W x D x H)	Standard Runtime Model	440 x 665 x 176 mm		440 x 750 x 218 mm		440 x 760 x 88.2 mm	
	Extended Runtime Model	440 x 430 x 88.2 mm		440 x 565 x 88.2 mm			
Weight	Standard Runtime Model	54 kg	54 kg	85.5 kg	85.5 kg	22.5 kg	
	Extended Runtime Model	10.9 kg	10.9 kg	15.2 kg	15.2 kg	22.5 kg	
Environment	Operating Temperature	0 ~ 55° C****					
	Relative Humidity	5 ~ 95% (non-condensing)					

\* De-rating to 70% load

\*\* Only applicable to RT 5-10kVA Extended Runtime Model and RT 15/20kVA

\*\*\* Not applicable to RT 20kVA

\*\*\*\* When the operating temperature is at 40 ~ 55° C, the UPS will be de-rated to 75% of its capacity

All specifications are subject to change without prior notice.

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