

Delta UPS - Amplon Family

RT Series, 5/6/8/10 kVA, Single Phase; 10/15/20 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
- Flexible battery quantity configuration enables optimized battery investment. 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) are optional respectively for easy configuration and easy UPS replacement
- 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-10K3P	RT-15K3P	RT-20K3P
Power Rating		5kVA/5kW	6kVA/6kW	8kVA/8kW	10kVA/10kW	10kVA/10kW	15kVA/15kW	20kVA/20kW
Input	Voltage Range	100~280Vac (Single phase, 2-wire + G) 100~175Vac with linear de-rating 50~100%				138~485Vac (Three phase, 4-wire + G) 138~305Vac with linear de-rating 40~100%		
	Frequency	40~70Hz						
	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	200/208/220/230/240Vac (Single phase)				380/400/415Vac (Three phase), or 220/230/240Vac (Single phase)		
	Frequency	50/60Hz ± 0.05Hz						
	Voltage Harmonic Distortion	≤ 2% (linear load)						
	Overload Capability	≤ 105%: continuous; 106~125%: 5min.; 126~150%: 1min.; > 150%: 500ms				≤ 105%: continuous; 106~125%: 2min.; 126~150%: 30sec; > 150%: 200ms		
Receptacle	Standard Runtime Model	C13 x 6, C19 x 2, Terminal x 1 Load bank: C19 x 1		C13 x 6, C19 x 4, Terminal x 1 Load bank: C19 x 1		Terminal block x 1		
	Extended Runtime Model	Terminal block x 1; Load bank: Terminal block x 1						
Efficiency	AC-AC	Up to 95.5%				Up to 96%	Up to 96.5%	
	ECO Mode	Up to 99%				99%		
Battery Voltage	Standard Runtime Model	192Vdc		240Vdc		144Vdc *		± 144Vdc *, ±192~±264Vdc
	Extended Runtime Model	144Vdc *, 192~264Vdc						
Charger Current	Standard Runtime Model	1A (default)		1.5A (default)		Up to 8A		
	Extended Runtime Model	Up to 8A						
Typical Backup Time	Standard	75% load	7.5min.	5.5min.	9min.	8min.	Depending on different configurations required by customers	
	Runtime Mod	Full load	5min.	3min.	5min.	3.5min.		
	Extended Runtime Model	Depending on different configurations required by customers						
Audible Noise		48dB			50dB		54dB	
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						
Conformance		CE, UL/cUL, RCM, TISI, EAC, BIS, KC, BSMI						
Environment	Operating Temperature	0~55°C ****						
	Relative Humidity	5~95% (non-condensing)						
Dimensions (W x D x H)	Standard Runtime Model	440 x 665 x 176mm			440 x 750 x 218mm		440 x 649 x	440 x 760 x 88.2mm
	Extended Runtime Model	440 x 430 x 88.2mm			440 x 565 x 88.2mm		88.2mm	
Weight	Standard Runtime Model	54kg			85.5kg		16.6kg	22kg 22.5kg
	Extended Runtime Model	10.9kg			15.2kg			

* De-rating to 70% load

** Only applicable to RT 5-10kVA Extended Runtime Model and 3-Phase RT 10/15/20kVA

*** Not applicable to 3-Phase RT 10/15/20kVA

**** 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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