

Delta UPS - Amplon Family



Applicable Sectors



Server



Network



Security



Data Center



Telecom



Industrial



Medical



Metro



Banking



Lab



Retail

RT Series

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

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. 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.

Features:

- True online double-conversion topology and zero transfer time to battery provides 24/7 full-time protection
- 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
- 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
- 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
- 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 UPS parallel mode to save installation space and additional battery costs

Technical Specification

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 ~ 280 V (Single phase, 2-wire + G) 100 ~ 175 V with linear de-rating 50 ~ 100%				138 ~ 485 V (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 × 1				Input terminal × 1, Bypass Input terminal × 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	50/60 Hz ±0.05 Hz						
	Voltage Harmonic Distortion	≤ 2% (linear load)						
	Overload Capability	≤ 105%: continuous; 106 ~ 125%, 5 min.; 126 ~ 150%, 1 min.;				≤ 105%: continuous; 106 ~ 125%: 2 min.;		
Receptacle	Standard Runtime Model	C13 × 6, C19 × 2, Terminal × 1 Load bank: C19 × 1		C13 × 6, C19 × 4, Terminal × 1 Load bank: C19 × 1		Terminal × 1		
	Extended Runtime Model	Terminal × 1 Load bank: Terminal × 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	1 A (default)		1.5 A (default)		Up to 8 A		
	Extended Runtime Model	Up to 8 A						
Typical Backup Time (VRLA bat.)	Standard Runtime Model	75% load	7.5 min.	5.5 min.	9 min.	6 min.	Depending on different configurations required by customers	
		Full load	5 min.	3 min.	5 min.	3.5 min.		
	Extended Runtime Model	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 × 1, Parallel Port** × 2, USB Port × 1, RS232 Port*** × 1, RS485 Port × 1, REPO/ROO Port × 1, Dry Contact × 4						
Dimensions (W × D × H)	Standard Runtime Model	440 × 665 × 176 mm		440 × 750 × 218 mm		440 × 730 × 88.2 mm		
	Extended Runtime Model	440 × 430 × 88.2 mm		440 × 565 × 88.2 mm				
Weight	Standard Runtime Model	54 kg	54 kg	85.5 kg	85.5 kg	22 kg	22.5 kg	
	Extended Runtime Model	10.9 kg	10.9 kg	15.2 kg	15.2 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.



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



TIS 1291
Part 1-2553 (2010)
Part 2-2553 (2010)
Part 3-2555 (2012)