

Delta UPS - Amplon Family



Applicable Sectors



Server



Telecom



Industrial



Network



VoIP



Storage



Medical

RT Series, Single Phase 1/2/3 kVA

The Amplon RT 1-3kVA series is an online double-conversion UPS providing consistent pure sine-wave power to your critical equipment. It supports personal computers, networks, servers, VoIP and telecommunications. RT 1-3kVA series features an output power factor of 0.9 and best-in-class AC-AC efficiency up to 94% 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.

Features:

- True online double-conversion topology and zero transfer time to battery ensure high reliability
- Watch-dog design of DSP (Digital Signal Processor) increases reliability
- Cold-start capability provides temporary battery power when the utility power is out
- Fan failure detection alerts users to failed fans
- Hot swappable batteries ensure continuous operation even when batteries are being replaced
- Optional external battery pack for easy scaling of longer backup time
- High output power factor 0.9 provides more real power to critical loads
- High input power factor ($pf > 0.99$) and low harmonic distortion ($iTHD < 5\%$) save upstream investment
- Up to 94% AC-AC efficiency and 97% efficiency in ECO mode result in marked energy cost savings
- Wide input voltage range reduces the chance of using the battery and extends battery life
- Intelligent battery management sustains battery life and performance
- Fan speed control by load level maximizes efficiency and reduces audible noise
- Load segment control allows less-critical loads to be disconnected during blackouts and saves battery runtime for important loads
- Convertible rack and tower configuration in 2U size cabinet
- Excellent local communications through rotatable LCD display
- Intelligent management software connectivity via RS232 or USB port

Technical Specification

Model		RT-1K	RT-2K	RT-3K
Power Rating		1kVA/0.9kW	2kVA/1.8kW	3kVA/2.7kW
Input	Nominal Voltage	200*/208*/220/230/240 Vac		
	Voltage Range	175 ~ 280 Vac (full load); 120 ~ 175 Vac (70 ~ 100% load)		
	Frequency	40 ~ 70 Hz		
	Power Factor	> 0.99 (full load)		
	Current Harmonic Distortion	< 5%		
Output	Power Factor	0.9		
	Voltage	200*/208*/220/230/240 Vac		
	Voltage Regulation	± 1% (linear load)		
	Frequency	50/60 Hz ± 0.05 Hz		
	Voltage Harmonic Distortion	< 2% (linear load)		
	Overload Capability	< 105%: continuous; 105 ~ 125%: 1 minute; 125 ~ 150%: 15 seconds		
	Receptacle	IEC C13 × 6	IEC C13 × 6 IEC C19 × 1	IEC C13 × 6 IEC C19 × 1
Efficiency	Online Mode	90%	Up to 94%	
	ECO Mode	96%	Up to 97%	
Battery	Battery Voltage	24 Vdc	48 Vdc	72 Vdc
	Typical Backup Time**	up to 15 minutes	up to 15 minutes	
	Charge Current	1.5 A	2 A	2 A
	Recharge Time	3 hours to 90%		
Audible Noise		< 40 dB	< 43 dB	< 46 dB
Display		LCD display and LED indicators		
Communication Interfaces		SMART Slot × 1, RS-232 Port × 1, USB Port × 1, REPO × 1		
Comformance		EN 62040-1, CE, TISI, RCM, EAC		
Dimensions (W × D × H)	UPS	440 × 335 × 89 mm	440 × 432 × 89 mm	440 × 610 × 89 mm
	External Battery Pack	440 × 335 × 89 mm	440 × 432 × 89 mm	440 × 610 × 89 mm
Weight	UPS	12 kg	18 kg	28 kg
	External Battery Pack	15 kg	27 kg	44 kg
Environment	Operating Temperature	0 ~ 50 °C***		
	Relative Humidity	0 ~ 95% (non-condensing)		

* When the UPS is de-rated to 90% of its capacity.

** When the total load reaches 75%.

*** 40 ~ 50°C with 80% de-rating

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 is 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)