

The power behind competitiveness

# Delta UPS-Amplon Family

R Series, Single Phase

1/2/3 kVA

## Reliable power supply for small and medium enterprises

Delta's Amplon R series is an online double-conversion rack-mountable UPS providing consistent sine-wave power to your critical equipment and reliable protection for IT equipment and data centers. The R series offers an output power factor of 0.9 and a best-in-class AC-AC efficiency of up to 93% for greater energy savings. The Amplon R series leads the industry in combining compact size, availability, flexibility, and low total cost of ownership.

### Availability

- True online double-conversion topology provides zero transfer time to ensure maximum protection of the equipment
- Watch-dog design of the DSP (Digital Signal Processor) increases reliability
- Cold-start capability provides temporary battery power when the utility power is out
- Operating temperature tolerance up to 50°C ensures critical loads' continuity
- The Maintenance Bypass Box offers load continuity during battery replacement or other upgrades

### Flexibility

- Compact dimensions meet the needs of different rack cabinets
- Convertible rack and tower configuration in 2U size cabinet
- Excellent local communications through rotatable LCD display
- Intelligent management software connectivity via RS232, mini slot or USB port

### Low Total Cost of Ownership

- Wide input voltage range reduces the chance of using the battery and extends battery life
- Intelligent battery management sustains battery life and performance
- High output power factor of 0.9 provides more real power to critical loads
- High input power factor (pf > 0.99) and low harmonic distortion (iTHD < 3%) save upstream investment
- Up to 93% AC-AC efficiency and 96% efficiency in ECO mode results in marked energy cost savings
- Fan speed control by load level and room temperature optimizes performance



Server



Telecom



Industrial



VoIP



Storage



Network

 **DELTA**  
Smarter. Greener. Together.



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| Technical Specification  |                             |  |                            |                         |
|--------------------------|-----------------------------|--|----------------------------|-------------------------|
| Model                    |                             | R-1K   | R-2K                       | R-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) ; 80 ~ 175 Vac (50% ~ 100% load)       |                            |                         |
|                          | Frequency                   | 50/60 Hz $\pm$ 10 Hz   |                            |                         |
|                          | Power Factor                | > 0.99 (full load)   |                            |                         |
|                          | Current Harmonic Distortion | < 3%   |                            |                         |
| Output                   | Power Factor                | 0.9  |                            |                         |
|                          | Voltage                     | 200*/208*/220/230/240 Vac  |                            |                         |
|                          | Voltage Regulation          | $\pm$ 1% (linear load)   |                            |                         |
|                          | Frequency                   | 50/60 Hz $\pm$ 0.05 Hz   |                            |                         |
|                          | Voltage Harmonic Distortion | < 3% (linear load)   |                            |                         |
|                          | Overload Capability         | < 105%: Continuous; 105 ~ 125%: 1 minute; 125 ~ 150%: 30 seconds |                            |                         |
|                          | Receptacle                  | IEC C13 x 4  | IEC C13 x 6<br>IEC C19 x 1 | IEC C13 x 6<br>Terminal |
| Efficiency               | AC-AC                       | 91%  | Up to 93%                  |                         |
|                          | ECO Mode                    | 95%  | Up to 96%                  |                         |
| Battery                  | Battery Voltage             | 24 Vdc   | 48 Vdc                     | 72 Vdc                  |
|                          | Charge Current              | 4A (up to 8A with optional inbuilt charger)                      |                            |                         |
| Audible Noise**          |                             | < 40 dB  | < 43 dB                    | < 43 dB                 |
| Display                  |                             | LCD display and LED indicators                                   |                            |                         |
| Communication Interfaces | Standard                    | Mini Slot x 1, RS-232 Port x 1, USB Port x 1                     |                            |                         |
| Conformance              | Safety                      | CE   |                            |                         |
| Physical                 | Dimensions (Wx Dx H)        | 440 x 335 x 88 mm  | 440 x 430 x 88 mm          | 440 x 430 x 88 mm       |
|                          | Weight                      | 5.3 kg   | 9.0 kg                     | 9.1 kg                  |
| Environment              | Operating Temperature       | 0 ~ 50°C***  |                            |                         |
|                          | Relative Humidity           | 5 ~ 95% (non-condensing)   |                            |                         |

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

\*\* If the UPS is running at <75% load and in room temperature.

\*\*\* When the operating temperature is at 40~50°C, the UPS will be de-rated to 80% of its capacity.

All specifications are subject to change without prior notice.



User-friendly LCD 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

