

# Amplon RT Gen3 Series UPS

Single-phase, 1-3 kVA, 230 Vac

Extended Runtime Model

## Safeguard your edge with a smart and economical power solution

Delta's Amplon RT series UPS is a robust online double-conversion UPS offering strong power protection with a convertible rack and tower configuration in 2U size. With its clean output power in pure sine wave, RT Gen3 can handle a wide range of utility problems, from blackout to harmonic distortion. Rest assured that your device is always fortified and safeguarded with RT Gen3!



### High Availability

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- True online double-conversion topology and zero transfer time to battery mode
- Operates at up to 50°C adapting to various environments
- Excellent overload capacity allows the overload condition to continue within the timeframe

### Green with Low TCO

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- Output power factor 0.9 provides more capacity to load
- Up to 90% online mode efficiency and 95% ECO mode efficiency contributes to significant energy cost savings
- Capable of working in harsh electrical environments with a wide input voltage range to minimize battery usage

### Easy Management

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- Convertible rack and tower configuration with rotatable LCD screen
- LCD display and intuitive interface offer effortless monitoring and configuration
- Excellent local communications through rotatable LCD display
- Intelligent management software connectivity via RS-232, mini slot or USB port for remote monitoring and setting



IT



Telecom



Industrial



Transportation



Financial



Government



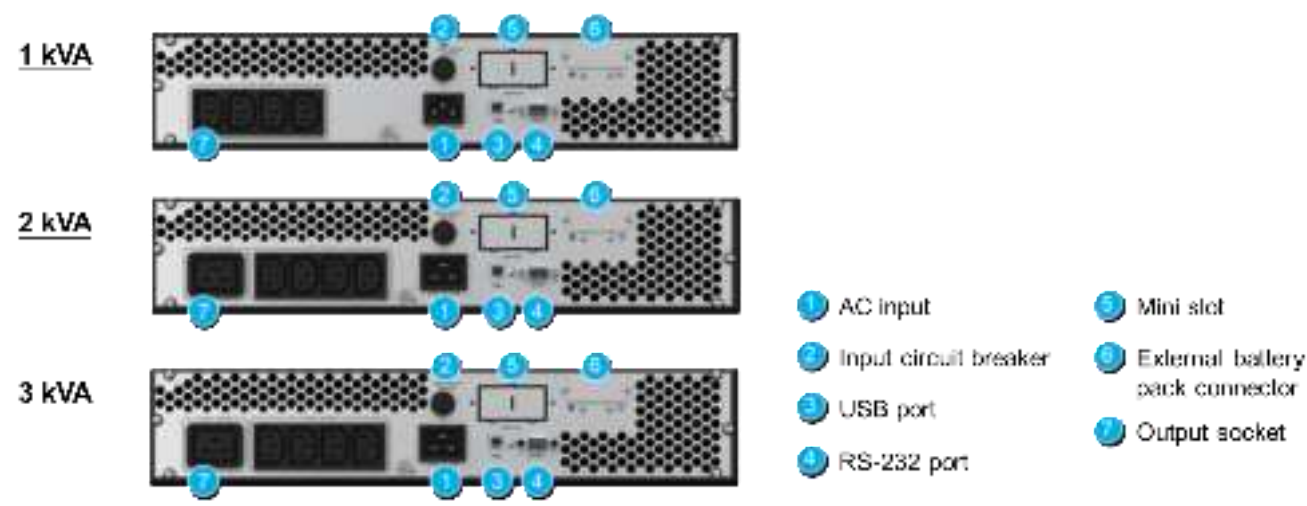
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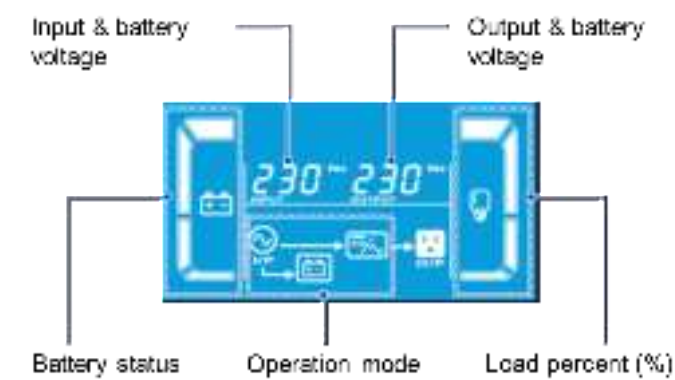
Retail



Rear Panel



LCD



Form Factor



Runtime Table

|          |       |       |       |       |       |       |       |       |       |       |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 kVA    |       |       |       |       |       |       |       |       |       |       |
|          | 90 W  | 180 W | 270 W | 360 W | 450 W | 540 W | 630 W | 720 W | 810 W | 900 W |
| UPS+1EBC | 87.4  | 38.2  | 22.3  | 15.4  | 12.0  | 10.0  | 8.8   | 7.7   | 6.6   | 5.3   |
| UPS+2EBC | 201.9 | 96.7  | 59.2  | 40.6  | 29.9  | 23.2  | 18.8  | 15.8  | 13.7  | 12.2  |
| UPS+3EBC | 318.3 | 158.5 | 100.2 | 70.5  | 52.9  | 41.4  | 33.5  | 27.8  | 23.6  | 20.4  |
| UPS+4EBC | 435.3 | 221.2 | 142.5 | 102.0 | 77.6  | 61.5  | 50.2  | 41.8  | 35.5  | 30.7  |

|          |       |       |       |       |       |        |        |        |        |        |
|----------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 2 kVA    |       |       |       |       |       |        |        |        |        |        |
|          | 180 W | 360 W | 540 W | 720 W | 900 W | 1080 W | 1260 W | 1440 W | 1620 W | 1800 W |
| UPS+1EBC | 90.8  | 39.8  | 23.3  | 16.0  | 12.4  | 10.4   | 9.1    | 8.0    | 6.9    | 5.7    |
| UPS+2EBC | 209.3 | 100.6 | 61.7  | 42.3  | 31.2  | 24.3   | 19.7   | 16.5   | 14.3   | 12.7   |
| UPS+3EBC | 329.7 | 164.6 | 104.3 | 73.5  | 55.2  | 43.2   | 35.0   | 29.0   | 24.6   | 21.3   |
| UPS+4EBC | 450.7 | 229.6 | 148.1 | 106.2 | 80.9  | 64.1   | 52.3   | 43.7   | 37.1   | 32.0   |

|          |       |       |       |        |        |        |        |        |        |        |
|----------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 3 kVA    |       |       |       |        |        |        |        |        |        |        |
|          | 270 W | 540 W | 810 W | 1080 W | 1350 W | 1620 W | 1890 W | 2160 W | 2430 W | 2700 W |
| UPS+1EBC | 58.8  | 24.9  | 15.1  | 11.2   | 9.2    | 7.6    | 5.8    | 3.3    | 2.5    | 2.0    |
| UPS+2EBC | 142.8 | 65.9  | 39.2  | 26.6   | 19.7   | 15.6   | 13.1   | 11.5   | 10.3   | 9.4    |
| UPS+3EBC | 229.5 | 111.3 | 68.6  | 47.3   | 34.9   | 27.1   | 22.0   | 18.4   | 15.8   | 14.0   |
| UPS+4EBC | 317.1 | 158.0 | 99.7  | 70.0   | 52.4   | 40.9   | 33.1   | 27.5   | 23.3   | 20.2   |

(1) Up to 4 EBCs can be paralleled.  
(2) Runtime table is estimated based on operation at 25 °C with batteries fully charged.

Unit: min



## Technical Specifications

| Model                            | RT-1K                                                                              | RT-2K                   | RT-3K              |
|----------------------------------|------------------------------------------------------------------------------------|-------------------------|--------------------|
| Topology                         | Online double-conversion                                                           |                         |                    |
| Power Rating                     | 1 kVA<br>0.9 kW                                                                    | 2 kVA<br>1.8 kW         | 3 kVA<br>2.7 kW    |
| INPUT                            |                                                                                    |                         |                    |
| Nominal Voltage                  | 208 <sup>(1)</sup> /220/230/240 Vac, 1P2W+PE                                       |                         |                    |
| Voltage Range                    | 180-280 Vac (100% load); 120-300 Vac (50-100% load)                                |                         |                    |
| Frequency Range                  | 40-70 Hz                                                                           |                         |                    |
| Power Factor                     | ≥ 0.99 (100% load)                                                                 |                         |                    |
| OUTPUT                           |                                                                                    |                         |                    |
| Nominal Voltage                  | 208 <sup>(1)</sup> /220/230/240 Vac, 1P2W+PE                                       |                         |                    |
| Voltage Regulation               | ±1%                                                                                |                         |                    |
| Frequency                        | 50/60 ± 3 Hz                                                                       |                         |                    |
| Total Harmonic Distortion (THDv) | < 3% (linear load)                                                                 |                         |                    |
| Power Factor                     | 0.9                                                                                |                         |                    |
| Connection                       | IEC C13 x4                                                                         | IEC C13 x4 + IEC C19 x1 |                    |
| Overload Capability              | < 105-110%: 10 mins; 110-130%: 30 secs; 130-150%: 3 secs                           |                         |                    |
| Current Crest Ratio              | 3:1                                                                                |                         |                    |
| EFFICIENCY                       |                                                                                    |                         |                    |
| Online Mode                      | 88%                                                                                |                         | 90%                |
| ECO Mode                         | 93%                                                                                | 94%                     | 95%                |
| BATTERY                          |                                                                                    |                         |                    |
| Battery Type                     | VRLA, External battery cabinet (Optional)                                          |                         |                    |
| Nominal Voltage                  | 36 Vdc                                                                             | 72 Vdc                  |                    |
| Parallel Configuration           | Up to 4 EBCs                                                                       |                         |                    |
| Charge Current                   | 1/ 2/ 4/ 6 A (configurable)                                                        |                         |                    |
| COMMUNICATION INTERFACE          |                                                                                    |                         |                    |
| Display                          | LCD display with LED indicators                                                    |                         |                    |
| Port                             | USB, RS-232, mini slot (option for mini SNMP, mini MODBUS and mini relay I/O card) |                         |                    |
| PHYSICAL                         |                                                                                    |                         |                    |
| Dimensions (W x D x H)           | 438 x 310 x 86 mm                                                                  | 438 x 410 x 86 mm       | 438 x 460 x 86 mm  |
| Net Weight                       | 5.7 kg                                                                             | 8.4 kg                  | 8.9 kg             |
| Packing Dimensions (W x D x H)   | 600 x 500 x 240 mm                                                                 | 565 x 700 x 240 mm      | 545 x 760 x 240 mm |
| Packing Weight                   | 9.4 kg                                                                             | 12.8 kg                 | 13.3 kg            |
| ENVIRONMENT                      |                                                                                    |                         |                    |
| Operating Temperature            | 0 to 50 °C (40 to 50 °C de-rating to 70% load)                                     |                         |                    |
| Humidity                         | 10-90% (non-condensing)                                                            |                         |                    |
| Audible Noise                    | ≤ 50 dBA                                                                           |                         |                    |
| Altitude                         | 0-3000 m (derating 1%/100 m from 2000-3000 m)                                      |                         |                    |
| Storage Temperature              | -20 to 50 °C                                                                       |                         |                    |
| Ingress Protection               | IP20                                                                               |                         |                    |
| CONFORMANCE                      |                                                                                    |                         |                    |
| Safety                           | CE, UKCA, KC                                                                       |                         |                    |
| EMC                              | IEC 62040-2                                                                        |                         |                    |
| Sustainability                   | RoHS, REACH                                                                        |                         |                    |

(1) De-rating to 70% load

All specifications are subject to change without prior notice.

## Management Solution

### UPSentry

- Supports RS-232 & USB communication
- Schedules shutdown, restart and battery test
- Event tracking

### ShutdownAgent

- Provides a graceful unattended shutdown of multiple loads in a network

### SNMP IPv6 (optional)

- Remote UPS management from any workstation through internet or intranet
- UPS and system function configuration from any client (password protected)
- Event logs and data tracking



## What's in the Box

### Standard Accessories

|                                |                                         |
|--------------------------------|-----------------------------------------|
| RT Gen3 UPS                    | User manual                             |
| USB cable (1.5 m)              | AC input cable with Schuko plug (1.5 m) |
| External battery cable (1.5 m) | Ear kit and tower stand                 |
| UPSentry software              | ShutdownAgent software                  |



More Product Information

## Optional Accessories

| External Battery Cabinet                                          | Net Dimensions (W x D x H) | Net Weight | Packing Dimensions (W x D x H) | Packing Weight |
|-------------------------------------------------------------------|----------------------------|------------|--------------------------------|----------------|
| RT-1K External Battery Cabinet<br>(Part number: BBA032B9009035)   | 438 x 410 x 86 mm          | 13.8 kg    | 600 x 500 x 240 mm             | 15.8 kg        |
| RT-2/3K External Battery Cabinet<br>(Part number: BBA062B6009135) | 438 x 410 x 86 mm          | 21.9 kg    | 600 x 500 x 240 mm             | 23.9 kg        |

### UPS Management Accessories

|                                                    |                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Mini SNMP IPv6<br>(Part number: SCMS100035)        | Manages UPS and system functions securely and adjusts parameters through SNMP management stations or internet browsers using HTTP forms. |
| Mini Relay I/O Card<br>(Part number: 3915101864-S) | Offers 6 relay output contacts to monitor status and 2 input contacts for simple shutdown and battery testing in UPS management.         |
| Mini MODBUS Card<br>(Part number: 3915101865-S)    | Supports MODBUS communication with a PC via RS-485 and RS-232 interfaces, allowing for flexible and simultaneous use.                    |

### Installation

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| Rail Kit<br>(Part number: 3915100011) | Mount UPS and External Battery Cabinet within a 19" rack. |
|---------------------------------------|-----------------------------------------------------------|



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