# Amplon N Gen3 UPS

## Single-phase, 1-3 kVA, 230 Vac

### Small and Reliable Power Guardian for Office & Home Critical Appliances

The Amplon N Gen3 Series 1-3 kVA is an online double-conversion uninterruptible power system (UPS) in a best-in-class compact size tower design. It supplies clean sine-wave input power for IT and other sensitive equipment and prevents work interruption, data loss or equipment damage from voltage sags, spikes, harmonic distortion and other power failures.

### High Availability

- Output power factor 0.9 provides more wattage to critical loads

- True online double-conversion topology and zero transfer time to battery mode

- Generator compatibility ensures clean, uninterrupted power to the loads during an extended power outage

### Green with Low TCO

- Capable of working in harsh electrical environments with wide I/P voltage range to minimize battery usage

- Excellent overload capacity allows the overload condition to continue within the timeframe

- AC-AC efficiency up to 90%, and ECO mode efficiency up to 95% for better energy savings

### Easy Management

- The intuitive LCD display provides UPS status information with the ability to configure locally

- Supports multiple communication interfaces, including USB port, RS-232 port and Mini slot (option for mini SNMP, mini Modbus and mini relay I/O card) for remote monitoring and configuration

- Battery self-test function ensures early detection of the battery status when batteries need to be replaced

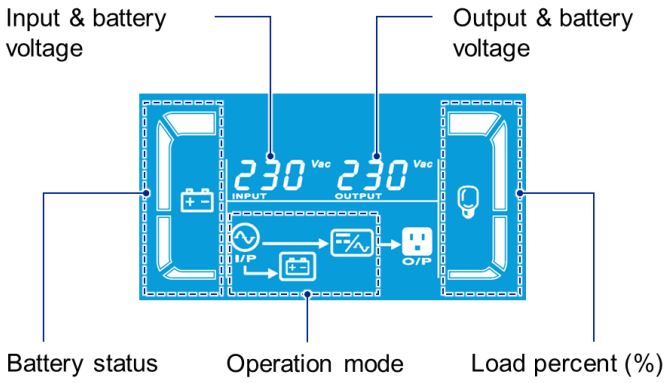IT    Telecom    Industrial    Transportation

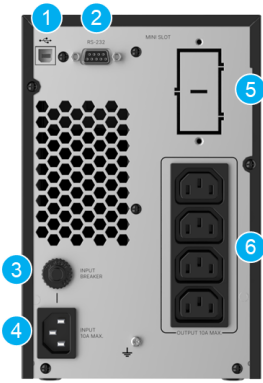Financial    Government    SME    Retail
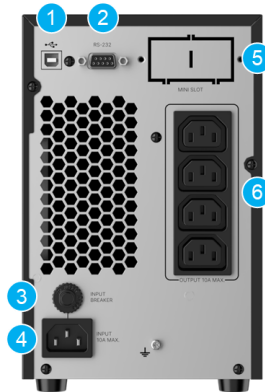
# LCD



Input & battery voltage

Output & battery voltage

Battery status

Operation mode

Load percent (%)

# Rear Panel

Standard runtime model

Extended runtime model

**1 kVA**

**2 kVA**

**3 kVA**
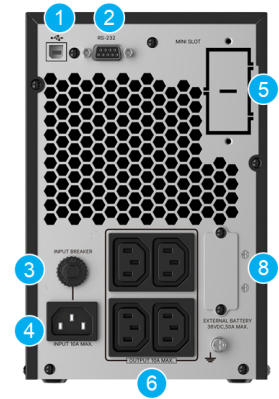
**1 kVA**



| | | | |
|---|---|---|---|
| ① USB port | ③ Input circuit breaker | ⑤ Mini slot | ⑦ Output terminal |
| ② RS-232 port | ④ AC input | ⑥ Output socket | ⑧ External battery connector |

# Runtime Table- Standard runtime model

### 1 kVA

| Load | 90 W | 180 W | 270 W | 360 W | 450 W | 540 W | 630 W | 720 W | 810 W | 900 W |
|---|---|---|---|---|---|---|---|---|---|---|
| Backup Time | 57.5 | 26.9 | 16.8 | 11.9 | 9.1 | 7.3 | 6.1 | 4.3 | 3.6 | 3.1 |

### 2 kVA

| Load | 180 W | 360 W | 540 W | 720 W | 900 W | 1080 W | 1260 W | 1440 W | 1620 W | 1800 W |
|---|---|---|---|---|---|---|---|---|---|---|
| Backup Time | 61.1 | 28.3 | 17.7 | 12.5 | 9.5 | 7.7 | 6.5 | 4.5 | 3.8 | 3.3 |

### 3 kVA

| Load | 270 W | 540 W | 810 W | 1080 W | 1350 W | 1620 W | 1890 W | 2160 W | 2430 W | 2700 W |
|---|---|---|---|---|---|---|---|---|---|---|
| Backup Time | 67.1 | 29.4 | 18.1 | 12.5 | 10.3 | 8.2 | 6.9 | 4.9 | 4.2 | 3.6 |

Unit: min

# Technical Specifications

| Model | | NX-1K | NX-2K | NX-3K |
|---|---|---|---|---|
| Topology | | Online double-conversion | | |
| Power Rating | | 1 kVA | 2 kVA | 3 kVA |
| | | 0.9 kW | 1.8 kW | 2.7 kW |
| **INPUT** | | | | |
| Nominal Voltage | | 220/230 Vac, 1P2W+PE | | |
| Voltage Range | | 180-285 Vac (100% load); 120-180 Vac (60-100% load) | | |
| Frequency | | 40-70 Hz | | |
| Power Factor | | > 0.99 (100% load) | | |
| Connection | | IEC C14 | | IEC C20 |
| **OUTPUT** | | | | |
| Nominal Voltage | | 200[1]/208[1]/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 + Terminal |
| Overload Capability | Standard[2] | ≤ 105%: continuous; 106-110%: 10 mins.; 111-130%: 30 secs; 131-150%: 3 secs; > 150%: immediately | | |
| | Extended[2] | ≤ 105%: continuous; 106-110%: 10 mins.; 111-130%: 1 min; 131-150%: 3 secs; > 150%: 0.5 sec | | |
| Current Crest Ratio | | 3:1 | | |
| **EFFICIENCY** | | | | |
| Online Mode | | Up to 90% | | |
| ECO Mode | | Up to 95% | | |
| **BATTERY** | | | | |
| Battery Type | | VRLA | | |
| Nominal Voltage | Standard | 24 Vdc | 48 Vdc | 72 Vdc |
| | Extended | 36 Vdc | N/A | N/A |
| Quantity | Standard | 2 pcs | 4 pcs | 6 pcs |
| | Extended | 3 pcs | N/A | N/A |
| Std. Model Runtime | 100% load | 3.1 mins | 3.3 mins | 3.6 mins |
| | 70% load | 6.1 mins | 6.5 mins | 6.9 mins |
| Charge Current | | 1 A | | |
| **COMMUNICATION INTERFACE** | | | | |
| Display | | LCD display with LED indicators | | |
| Port | | USB, RS-232, Mini slot | | |
| Audible Alarm | | Battery mode, Low battery, Overload, Fault, Bypass mode | | |
| **PHYSICAL** | | | | |
| Dimensions (W x D x H) | | 145 x 282 x 220 mm | 145 x 492 x 220 mm | 190 x 421 x 318 mm |
| Net Weight | Standard | 9.2 kg | 16.8 kg | 27 kg |
| | Extended | 4.4 kg | N/A | N/A |
| Packing Dimensions (W x D x H) | | 230 x 360 x 325 mm | 230 x 590 x 355 mm | 320 x 560 x 460 mm |
| Packing Weight | Standard | 10.3 kg | 18.6 kg | 28.4 kg |
| | Extended | 5.5 kg | N/A | N/A |
| **ENVIRONMENT** | | | | |
| Operating Temperature | | 0 to 50 °C (40 to 50 °C de-rating to 70% load) | | |
| Humidity | | 20-90% (non-condensing) | | |
| Audible Noise[3] | | < 45 dBA | | |
| Altitude | | 0-3,000 m (derating 1%/100 m from 1,000-3,000 m) | | |
| Storage Temperature | | -20 to 50 °C | | |
| Ingress Protection | | IP20 | | |
| **CONFORMANCE** | | | | |
| Safety | | CE, UKCA, TISI, RCM[4], KC[4] | | |
| EMC | | IEC 62040-2 | | |
| Sustainability | | RoHS, REACH | | |

(1) 200V is for the extended runtime model, derating 200V and 208V to 80% load. The standard model derates 208V to 70% load.

(2) Standard model: built-in batteries; Extended model: capability to add external battery packs

(3) Audible noise test with UPS < 75% load at 25 °C in online mode

(4) Applicable only to the standard runtime models

All specifications are subject to change without prior notice.
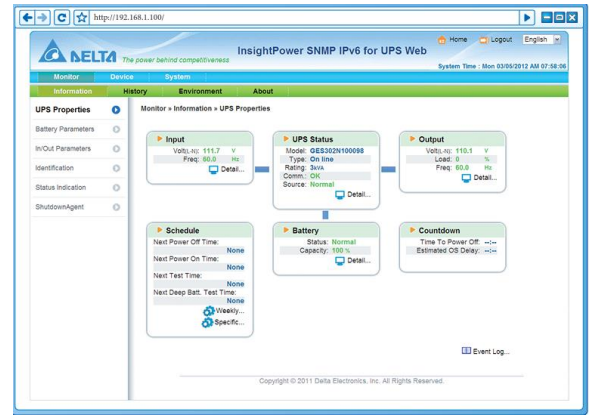
## Management Solution

### UPSentry

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

### ShutdownAgent

- Provides a graceful unattended shutdown of multiple computer systems over 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

| |
|---|
| N Gen3 UPS |
| User manual |
| USB cable (1.5 m) |
| AC input cable (1.5 m) |
| External Battery Cable[1] |
| Free ShutdownAgent software for local UPS status and shutdown |
| Free UPSentry software for remote network management |

(1) Applicable only for extended runtime model

More Product Information

## Optional Accessories

| | |
|---|---|
| Mini SNMP IPv6<br><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><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><br>(Part number: 3915101865-S) | Supports Modbus communication with a PC via RS-485 and RS-232 interfaces, allowing for flexible and simultaneous use. |

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