

### 1KW SOHO Inverter with Simulated Sinewave Output

**Compliant Low Cost Budget Solution:** This LinkQnet high frequency simulated sinewave 12V DC to 230V AC Inverter solution includes a 20A AC-DC charger and a 1000VA 900W RMS DC-AC simulated sinewave inverter in a compact lightweight solution which greatly simplifies installation and uses minimal space.

**Low Budget with advanced options:** Your safety and convenience is our priority so we have designed the UPS-INV-1000VA-LQ-K to include safety, reliability and configuration features that are normally found in much more expensive products. All of these features are enabled by using the latest technology to create a functional solution and fresh design while balancing the costs to remain within your budget. The specialised central processing unit monitors the incoming utility power as well as the load in real time and can sense reactive power to condition its power delivery based on the type of load.

The UPS-INV-1000VA-LQ-K has the ability protect itself from high voltage surges and non-compliant load situations and will transfer to battery mode or shut down before permanent damage can occur.

- High Frequency Reactive Modified Sinewave Inverter
- Selectable input voltage ranges (90V AC - 280V AC or 170V AC - 280V AC)
- Selectable output voltage (220V AC, 230V AC or 240V AC)
- Auto restart when AC is recovering
- User-friendly LCD panel showing load, battery condition and current settings
- Environmental temperature control and charge management
- Intelligent 3-stage charger control for efficient charging and overcharge prevention
- Configurable 10A or 20A charging current
- Protection - Low battery alarm, low battery shutdown, over charge protection overload protection, over temperature protection, short circuit protection
- Fan speed automatically adjusts to load and temperature for low noise
- Configurable Low Battery Cut off point to control battery Depth Of Discharge
- Buzzer alarm ON/OFF setting

#### Solid and Reliable

The LinkQnet UPS-INV-1000VA-LQ-K has been designed to tolerate African power grid and environmental conditions.

#### Battery Options

The LinkQnet UPS-INV-1000VA-LQ-K works best with lead acid (Flooded, VRLA AGM or GEL) batteries from 40Ah to 200Ah rating.

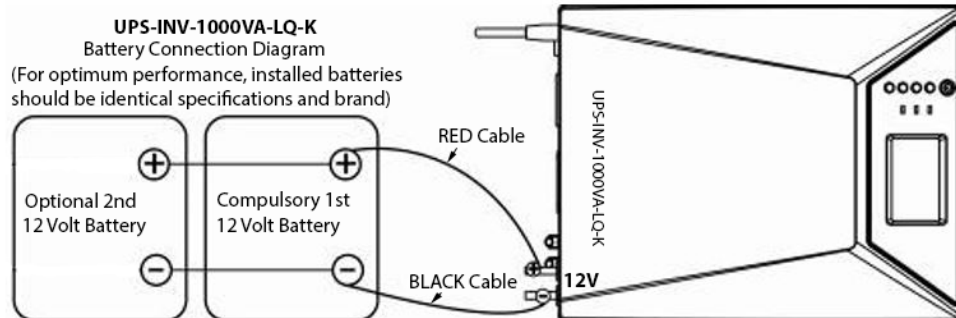


**Solid Backup:** A two year warranty with spares in stock and a fully equipped component level repair facility ensures that no matter what the circumstances, your solution will be up and running in reasonable time.

## SPECIFICATIONS

## UPS-INV-1000VA-LQ-K

|          |                             |                                                                                   |
|----------|-----------------------------|-----------------------------------------------------------------------------------|
| INVERTER | PEAK POWER                  | 1000VA                                                                            |
|          | RMS POWER                   | 900W                                                                              |
|          | AC VOLTAGE                  | 230V (Default), 220V or 240V adjustable                                           |
|          | AC WAVEFORM                 | Simulated Sine Wave                                                               |
|          | AC REGULATION               | +10% / -18%                                                                       |
|          | TRANSFER TOLERANCE          | 170V to 280V (Narrow Mode) / 90V to 280V (Default Wide Mode)                      |
|          | TRANSFER TIME               | 20ms Typical                                                                      |
|          | DC VOLTAGE                  | 12V                                                                               |
| CHARGING | AC CHARGE                   | 10A or 20A (20A Default - Adjustable)                                             |
|          | CHARGER ALGORITHM           | 3 - Stage                                                                         |
|          | LOW BAT CUT-OFF VOLTAGE     | 8.7V DC - 12V DC (9.8V DC Default - Adjustable in 0.1V Steps)                     |
|          | OVERCHARGE PROTECTION       | 15.3V DC (Charger will cut off with Error 01 on the LCD Display)                  |
|          | BATTERY TYPES               | Lead Acid Flooded, AGM or GEL                                                     |
|          | BATTERY SIZES               | 40AH to 200AH (Recommended)                                                       |
|          | REQUIRED 12V BATTERIES      | Requires at least 1 x 12V Battery to operate (100AH Recommended)                  |
|          | WARRANTY                    | Two Years - Conditional                                                           |
| PHYSICAL | WEIGHT                      | 2.0kg                                                                             |
|          | DIMENSIONS                  | 316mm(d) x 227mm(w) x 92m(h)                                                      |
|          | OPERATING HUMIDITY          | 0%~90% Relative humidity (non-condensing)                                         |
|          | OPERATING TEMPERATURE       | 0°C to 50°C                                                                       |
|          | NOISE LEVELS                | Suitable for general office environments, Fan noise will increase with load       |
|          | AC OVERLOAD WARNING         | Yes - Error 03 on the LCD Display with Buzzer                                     |
|          | AC SHORT CIRCUIT PROTECTION | Yes - Error 02 on the LCD Display with Inverter Shutdown and fuse protection      |
|          | GENERAL PROTECTION          | Internal 120A DC Fuse, Deep Discharge, Over Charge, Over Load, Over Temperature   |
| GENERAL  | FAN - THERMAL CONTROL       | Speed Controlled Fan with Monitoring - Failure will show Error 05 on LCD Display  |
|          | INSTALLATION ENVIRONMENT    | Indoor environment with no exposure to direct external air in coastal regions     |
|          | INSTALLATION COMPETENCY     | Consumer installable with close reference to the included installation manual     |
|          | CONFIGURABLE SETTINGS       | AC Charge, Low DC Cut-off Voltage, AC Output Voltage, Buzzer Mute, LCD Back light |



### Typical Estimated Runtimes with new 10HR quality AGM or GEL batteries

| Load (W) | With 1 x 100Ah batteries (hh:mm) | With 2 x 100Ah batteries (hh:mm) |
|----------|----------------------------------|----------------------------------|
| 100W     | 12h:46m                          | 26h:50m                          |
| 200W     | 05h:35m                          | 12h:46m                          |
| 300W     | 03h:18m                          | 08h:23m                          |
| 400W     | 02h:19m                          | 05h:39m                          |
| 500W     | 01h:52m                          | 04h:29m                          |
| 600W     | 01h:35m                          | 03h:47m                          |
| 700W     | 01h:21m                          | 02h:56m                          |
| 800W     | 01h:02m                          | 02h:20m                          |
| 900W     | 00h:55m                          | 02h:05m                          |

Linkage endeavours to research customer feedback and continuously upgrade our products so specifications may be altered slightly to improve customer value and enhance performance.