COMET POWER SOLUTIONS

# LINE INTERACTIVE UPS 1600VA

*K Series Off-Line / Line-Interactive Uninterruptible Power Supply*

**MODEL: K-1600**

Capacity: 1600VA

## Product Overview

The COMET K Series 1600VA Line Interactive UPS provides robust high-capacity power protection and extended battery backup for enterprise servers, office workstations, networking hubs, and high-end electronic equipment. Equipped with dual 12V 7Ah internal batteries, automatic voltage regulation (AVR), and advanced microprocessor controls, it guarantees continuous operational uptime and defends against blackouts, brownouts, voltage spikes, and surges.



## Key Features & Advantages

- Simple, compact, and robust machine enclosure design
- Super-wide mains AC input voltage range (145–280 VAC)
- Advanced microprocessor control ensuring ultra-reliable operation
- Dual battery system (12V 7Ah x 2) for extended power runtime
- Automatic Voltage Regulation (AVR) for automatic voltage boost and buck adjustment
- Mains auto-restart function upon utility power restoration
- Off-mode automatic battery charging & Cold Start capability
- Generator compatible for seamless operational integration
- Comprehensive defense against overload, deep discharge, and overcharge

## Technical Specifications

| Category | Parameter | Specification / Detail |
|---|---|---|
| **Input** | Nominal Input Voltage | 220 VAC |
| **Input** | AC Input Voltage Range | 145 – 280 VAC |
| **Input** | Input Frequency Range | 50 Hz (Auto-sensing) |
| **Input** | Generator Compatibility | Yes |
| **Output** | Power Rating / Capacity | 1600 VA / 1000 W |
| **Output** | Voltage Range (Battery Mode) | 220 VAC ± 10% |
| **Output** | Frequency Range (Battery Mode) | 50 Hz ± 1 Hz |

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|---|---|---|
| **Output** | Transfer Time | Typical: 2–6 ms; Maximum: 10 ms |
| **Output** | Waveform (Battery Mode) | Modified Sine Wave |
| **Battery** | Battery Model & Quantity | 12V / 7Ah x 2 |
| **Battery** | Recharge Time | 4 to 6 hours recharge to 90% capacity |
| **Battery** | Charging Behavior | Automatic charging in Off-mode |
| **Battery** | Cold Start Function | Supported (Power on with battery) |
| **Status & Alarm** | LED Indicator (AC Mains Mode) | Green Light (Normal AC Operation) |
| **Status & Alarm** | LED Indicator (Battery Mode) | Yellow Light Flash |
| **Status & Alarm** | Audible Alarm - Battery Mode | Beeps every 4 seconds |
| **Status & Alarm** | Audible Alarm - Low Battery | Beeps every 1 second |
| **Status & Alarm** | Audible Alarm - Overload | Beeps every 0.5 seconds |
| **Status & Alarm** | Audible Alarm - Fault | Beeps continuously |
| **Protection** | Comprehensive Protection | Full protection against overload, deep discharge, and over-charge |
| **Physical** | Dimensions (D x W x H) | 360 x 122 x 195 mm |
| **Physical** | Net Weight | 12.3 kg |
| **Environment** | Operating Temp & Humidity | 0°C – 40°C @ 0–90% Relative Humidity (Non-condensing) |
| **Environment** | Acoustic Noise Level | < 40 dB at 1 meter distance |

## Recommended Applications

**Enterprise Servers**
High-performance servers, racks, & data storage

**Enterprise LAN & Hubs**
Core switches, routers, firewalls, & telecom gear

**Multi-PC Workstations**
Multiple office PCs, CAD stations, & monitors

**Precision Instruments**
Medical devices, lab gear, & control electronics