Voltage Sag Generator
1-Phase 20A 120/240V 50/60Hz

1 Phase Voltage Sag Generator

Omniverter offers a new diagnostic tool to industry, business and electric utilities who wish to perform voltage sag testing to IEC61000-4-11, IEEE1668 and to SEMI F47

Unique features to improve accuracy
Voltage compensation for line test voltage.
User can select standard or custom test sequence

The Voltage Sag Generator provides investigators a quick way to identify weak links in a process by injecting voltage sags of known, controlled magnitude and duration, while monitoring the response of the process. The Voltage Sag Generator helps engineers quickly characterize process components from a simple relay to complex programmable logic controllers and equipment in industrial facilities. Its built-in data acquisition system automatically captures voltage, current and other user connected signals during induced sag events.

Includes
- Main unit and all necessary interconnecting cables
- Built-in 8-channel data acquisition system
- Voltage probe accessory kit
- User manual and Voltage Sag Generator software

Available Option
- Notebook computer pre-loaded and tested with Voltage Sag Generator software.

Omniverter
Tame your power—keep your profits
Features

- Connects in series between the utility supply and load using simple input and output connections
- Test voltages (100–240V, 50 or 60 Hz)
- Creates sags by switching momentarily to adjustable transformer
- Easy setup for single-or split phase loads
- Motorized Transformer to select sag levels
- Sag depth 100% to 0% in 3% steps
- Voltage sag durations ranging from ¼ cycle to 30 seconds full load, (60 sec. half load) in ¼ cycle increments
- 360-degree point-on-wave control
- Built-in start/stop circuit
- Built-in current transformer to monitor load current
- Captured waveforms can be saved in any of several formats including CSV, bitmap, jpeg
- Software runs under Microsoft® Windows™ 7 64 bit is provided.

Specifications

**Electrical**

- **Control voltage**: Either 120VAC or 220VAC
- **Operating frequency**: 50 or 60 Hz, automatic detection
- **Test voltage range**: 100–240V Phase-to-Neutral, or split phase
- **Max load current**: 20A$\text{rms}$ continuous
- **Max load inrush current**: 50A$\text{peak}$ for ½ cycle
- **Input configuration**: 1-phase Y + N+G or Split phase + G
- **Output configuration**: 1-phase Y + N+G or Split phase + G
- **Monitoring points**: Phase A-N, or Li-L2

**Sag Control**

- **Sag duration**: ¼ cycle to 30 sec. in ¼-cycle steps at full load (60 secs. at half load)
- **Sag magnitude**: 3% to 100% in 3% steps
- **Point-on-wave**: 360° in 1° increments
- **Trigger output**: TTL compatible

**Data Acquisition**

- **Sampling rate**: 10 kHz
- **Resolution**: 16 bits
- **Max input voltage**: 3 channels ±10 V$\text{peak}$ AC or DC
- **Max input voltage**: 3 channels ±350 V$\text{peak}$ AC or DC (approx 240 V$\text{rms}$)

Voltage Sag Generator software is a powerful diagnostic tool for capturing analyzing and exporting waveforms

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