

# MPQSIM

## Power Quality Simulator



- **Ideal for power quality training**
- **Easily create sags, swells, transients and harmonic events**
- **Simulate voltage flicker, leading and lagging power**
- **Create phase shift events**
- **Simulate three phases of voltage and current at 115 V ac or 230 Vac**
- **Operates off single-phase voltage**

### DESCRIPTION

The MPQSIM Megger Power Quality Simulator is used for demonstrations and as a training tool. It is the perfect tool to use with the MPQ1000.

The MPQSIM provides a simple and easy method for simulating a three-phase voltage configuration off of a standard single-phase source. The simulator provides both continuous voltages/currents and harmonics for trending as well as instantaneous events for power quality demonstrations and training.

### APPLICATIONS

The MPQSIM Power Quality Simulator is ideal for power quality training courses and demonstrations of power quality phenomenon. The MPQSIM will allow you to see signatures of different types of power quality phenomenon. It also allows you to learn how to program a power quality analyzer to capture these phenomenon.

### SPECIFICATIONS

#### Voltage Channels

3 Channels arranged in a wye configuration

#### Voltage Range

98Vac – 132Vac on the 115Vac Range  
196Vac – 264Vac on the 230Vac Range

#### Voltage Accuracy

85.0 % +/- 0.5%  
102.0% +/- .2%  
115.0% +/- 0.5%

#### Current Channels

3 channels

#### Current Range

10A / 100A / 1000A / 6000A

#### Current Output is 0-1Vac Full Scale

0.45 Vac – 1.00 Vac full scale

#### Current Accuracy

+/-2% Full Scale

#### Output Frequency

50 Hz / 60 Hz

#### Phase Angle Range

-30° to +11°

#### Phase Angle Accuracy

±1.5°

#### Harmonic Orders

1st / 3rd & 5th

## Simulated Phenomenon

Sags / Dips

Swells

Transients

Harmonics

Phase Angle Shifts

IEC Flicker

Source Direction Reversal

Leading and Lagging Power Factor

AC Adapter power 100-240 Vac 50/60 Hz

## Input

12VDC AC Adapter

## Temperature

Operating: 32° F to 105° F (0° C to 40° C)

Storage: -5° F to 122° F (-20° C to 50° C)

Humidity: 0 to 95% RH, noncondensing

## Altitude

2000m

## Standards

Safety - IEC 61010

## CAT II @ 300V

IP40

## Dimensions

14.2 L x 12 W x 7.6 H in. (36 L x 31 W x 19 H cm) Closed

14.2 L x 12 W x 5.4 H in. (36 L x 31 W x 14 H cm) Open

## Weight

11.5 lbs (5.2 kg)

## ORDERING INFORMATION

Item (Qty)	Cat. No.
MPQ Simulator	MPQ-SIM-01
AC adapter	90017-548
Current cables	2008-124
Ground cable	2008-101

## SALES OFFICE

2621 Van Buren Avenue  
Norristown, PA 19403 USA  
T +1 866-254-0962 (USA only)  
T +1 610-676-8500  
F +1 610-676-8625

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