

Specifications PQSim[™] Model 100

PQSim™ 100 is a purpose built function generator that produces the most common Power Quality anomalies at the push of a button.

Typical values

Outputs

Nominal voltage:

100; 115; 120 VAC +/- 5 %, 50/60 Hz select nominal voltage and frequency when ordering Nominal THD 6% to 8% Odd THD Even THD < 1%

Neutral to ground voltage 0.7 vac +/- 10%

Output connector standard 4mm safety banana jack.

Nominal Current:

Current output is 0 to 1.5vac for direct connection to PQmeter under test.

Current: (voltage) 0.3 vac +/- .1 vac nominal voltage at 240Vac Current: (voltage)THD 7% to 10% ODD THD 7 to 8% Even 0.5%

Current Output connector; BNC adapter cables to TR or user specified

Single phase output of PQ events;

Phase to Neutral

Sag; user selection for duration and magnitude

Magnitude; -10 %, -25 %,-50 %

Duration; 0.05 cycle (notch); 0.5 cycle; 1 cycle; 5 cycle; 11 cycle

Swell; user selection for duration

Magnitude fixed at +10% +/- 2%

Duration; 0.05 cycle; 0.5 cycle; 1 cycle; 5 cycle; 11 cycle

Neutral to Ground

Swell: Magnitude fixed 2.5 vrms + transient; includes Voltage sag phase to neutral Duration 0.05 cycle; 0.5 cycle; 1 cycle; 5 cycle; 11 cycle

Transients (See user guide for examples)

Phase to neutral

Unipolar fast transient

Decaying Ring wave

Bipolar fast transient

Neutral to Ground

Transient: Unipolar fast transient

Odd Harmonics;

(note: The PQsim is not intended as a precision harmonic generation. Harmonic values will vary with nominal voltage selection and nominal frequency selection) 3rd, 6% to 8%; 5th,1.5%; 7th, 0.7%; 9th 0.1%



Auto Sequence function

Sample of each PQ event as test for quick test of PQmeter and user setup

1 event per 30 seconds

Sag 10%

Sag 25%

Swell Phase to Neutral

Swell Neutral to Ground (simultaneous Voltage Sag Phase to neutral and Current surge)

Transients Phase to neutral

Unipolar fast transient

Decaying Ring wave

Bipolar fast transient

Transient Neutral to Ground

Fast Unipolar

ODD harmonics

Note: Specifications and characteristics to improve performance subject to change without notification.

Specifications based on June 1, 2016; Firmware 151008B

To Order contact Power Quality Inc, 642 E 39th Place Suite 5, Yuma Arizona 85365 1-928-344-9008



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