



Supply Circuit Negative Surge Simulator

TIS 60T1

- Toyota TSC0502G
- Toyota TSC3500G
- Toyota TSC3590G
- Toyota TSC7001G
- Toyota TSC7203G
- Toyota TSC7306G

Features

- > Support 5.7-inch color touch screen front panel operation
- > Negative surge test complying with Toyota standards
- > Built-in DC switch for spark testing
- > Ethernet RJ45 interfaces for PC remote control and test reports printing

Introduction

The TIS 60T1 Supply Circuit Negative Surge Simulator is designed in accordance with Toyota TSC0502G. It can simulate various negative surges caused by sudden disconnection of alternators and inductive loads.

The TIS 60T1 generates two types of waveforms: square wave (Fig. 2a) and burst wave (Fig. 2b). Developed based on the 3rd-generation platform, this instrument features simple and intuitive operation with high reliability.

Application Areas



Technical Parameters

Output Voltage of Spark Surge (Vs)	-46 V (+1, -554 V) @ 25 Ω $\pm$ 0.5 Ω load -462 V (+10, -138 V) @ 1 k Ω $\pm$ 0.02 k Ω load
Spark Surge Duration	Square wave: 0.1 ~ 1.5 ms Burst waveform: 50 μ s $\pm$ 5 μ s
Single Pulse	Rise time (tr): 5 ~ 10 ns Pulse width (td): 0.5 μ s ~ 1.0 μ s
Negative Surge Peak (Vp)	-100 V $\pm$ 2 V @ 25 Ω $\pm$ 0.5 Ω load -120 V $\pm$ 2 V @ 1 k Ω $\pm$ 0.02 k Ω load
Time Constant (τ)	0.02 s $\pm$ 0.001 s (Not specified for 1 k Ω $\pm$ 0.02 k Ω load)
Waveform Duration	1 s
Test Repetition	2 s
Counter	1 ~ 999
DUT Load (Optional)	30 A, 50 A, 75 A, 100 A

General Parameters

Working Power	AC 110 V/220 V $\pm$ 10%, 50/60 Hz $\pm$ 5%
Dimension	4U rack
Weight	Approx. 40 kg
Ambient Temperature	5 $^{\circ}$ C ~ 23 $^{\circ}$ C
Relative Humidity	25% ~ 70%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cables, User Manual, Fuse (Spare parts), Calibration Load R25 Ω , Calibration Load R1,000 Ω

Optional Accessories

Autolab Control Software

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