



Vehicle Power Supply Circuit Negative Surge Simulator

TIS 60T1

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

Features

- > 5.7-inch color touch screen front panel operation;
- > Satisfy the test requirement of negative surge test specified in Toyota TSC0502G;
- > Built-in DC switch for spark test;
- > Ethernet and RJ45 interface for PC remote control and test report printing.

Introduction

The vehicle power supply circuit negative surge simulator TIS 60T1 is designed according to Toyota TSC0502G, which is capable of simulating the various types of negative surges discharged from the inductive system load. It can generate square wave (Fig. 2a) and burst waveform (Fig. 2b) with easy and intuitive setting design.

Application Areas



Vehicles

Technical Parameters

Technical Parameters for Spark Surge: Square Wave and Burst Waveform	
Output Voltage of Spark Surge (Vs)	-46 V(+1,-554 V) (connected to 25 Ω±0.5 Ω load) -462 V(+10,-138 V) (connected to 1 kΩ±0.02 kΩ load)
Spark Surge Duration	Square Wave 0.1~1.5 ms Burst Waveform 50 μs±5 μs
Single Pulse of a Burst	Rise Time tr 5~10 ns Pulse Width td: 0.5 μs ~1.0 μs
Negative Surge Peak (Vp)	-100 V±2 V (25 Ω±0.5 Ω) -120 V±2 V (1 kΩ±0.02 kΩ)
Time Constant of Negative Surge Waveform τ	0.02 s±0.001s (5 Ω±0.5 Ω) No requirement (kΩ±0.02 kΩ)
Waveform Duration Time	1s
Test Repetition	2s
Counter	1-999
DUT Load(optional)	30 A, 50 A, 75 A, 100 A

General Parameters

Working Power Supply	220V±10%, 50/60Hz±5%
Dimension	4U rack 450 mm (L) * 620(W) mm* 190 (H) mm
Weight	Approx. 40 kg
Ambient Temperature	5°C ~ 23°C
Relative Humidity	25% - 70%
Atmospheric Pressure	86kPa – 106kPa

Standard Accessories

Test Cables, Power Cord, Fuse (spare parts), User Manual, Calibration Load R25 Ω, Calibration Load R1000 Ω
--

Options Accessories

Autolab control software

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: + 86 - 512 - 68077192

Web: www.3c-test.com



3CTEST is always striving for product innovation and quality improvement. Product appearance and technical specifications are subject to change without further notice.