



automotive **EMC** solutions



1

General description

2

TIS 700 series: transient immunity simulator

3

APS/APG series: environmental conditions of power supply test

4

PAWG series arbitrary waveform generator

5

LDS 200 series: automotive load dump immunity simulator

6

PFS series: power fail simulator

7

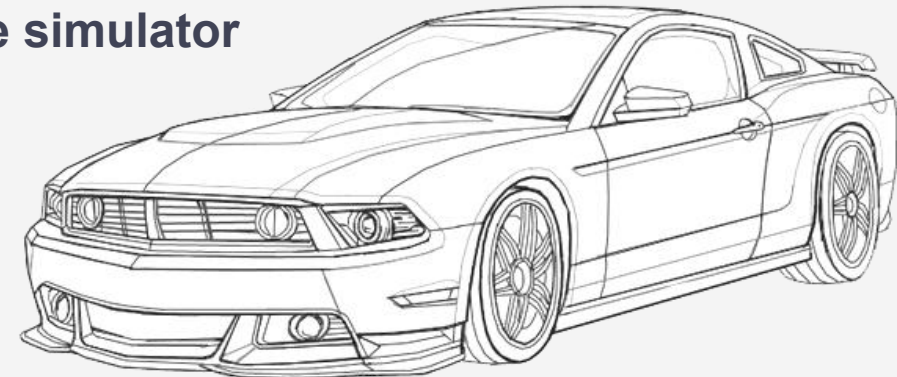
VTE 743T1: transient conducted emission

8

EDS30V electrostatic discharge simulator

9

AutoLab™ software



General description

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

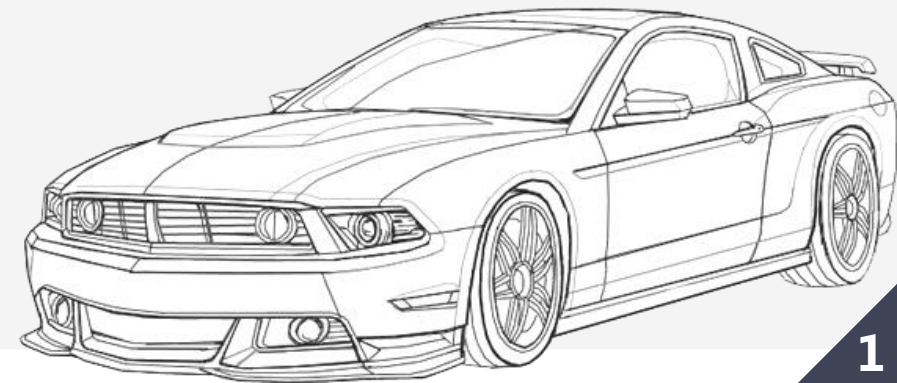
VTE 743T1

EDS30V

AutoLab™ software



- ✦ Fully automotive EMC testing solutions
- ✦ Support numerous international standards and manufacturer standards
- ✦ AutoLab PC software provides one-key implementation of standard test and report generation
- ✦ Built-in CDN, no need to change DUT connection for waveform switch over
- ✦ Built-in protection function, safe and reliable
- ✦ Synchronous trigger oscilloscope, dynamic monitoring experiment process



General description

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- Support international standards

ISO7637-2, ISO16750-2, LV124, SAEJ1113,
GB/T21437-2, etc

- Support manufacturer standards

Chrysler, Ford, BMW, Nissan, GMW, VW, PSA,
etc

➤ Equipments are built in ISO7637 and ISO16750 standard library, for other standards, AutoLab PC software needs to be used.

General description (Customers)

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



KOSTEC



Lucy Forest Corporation Ltd.



Richtec TAIWAN OFFICE

ar Europe

TESTEK Korea

General description (Customers)

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

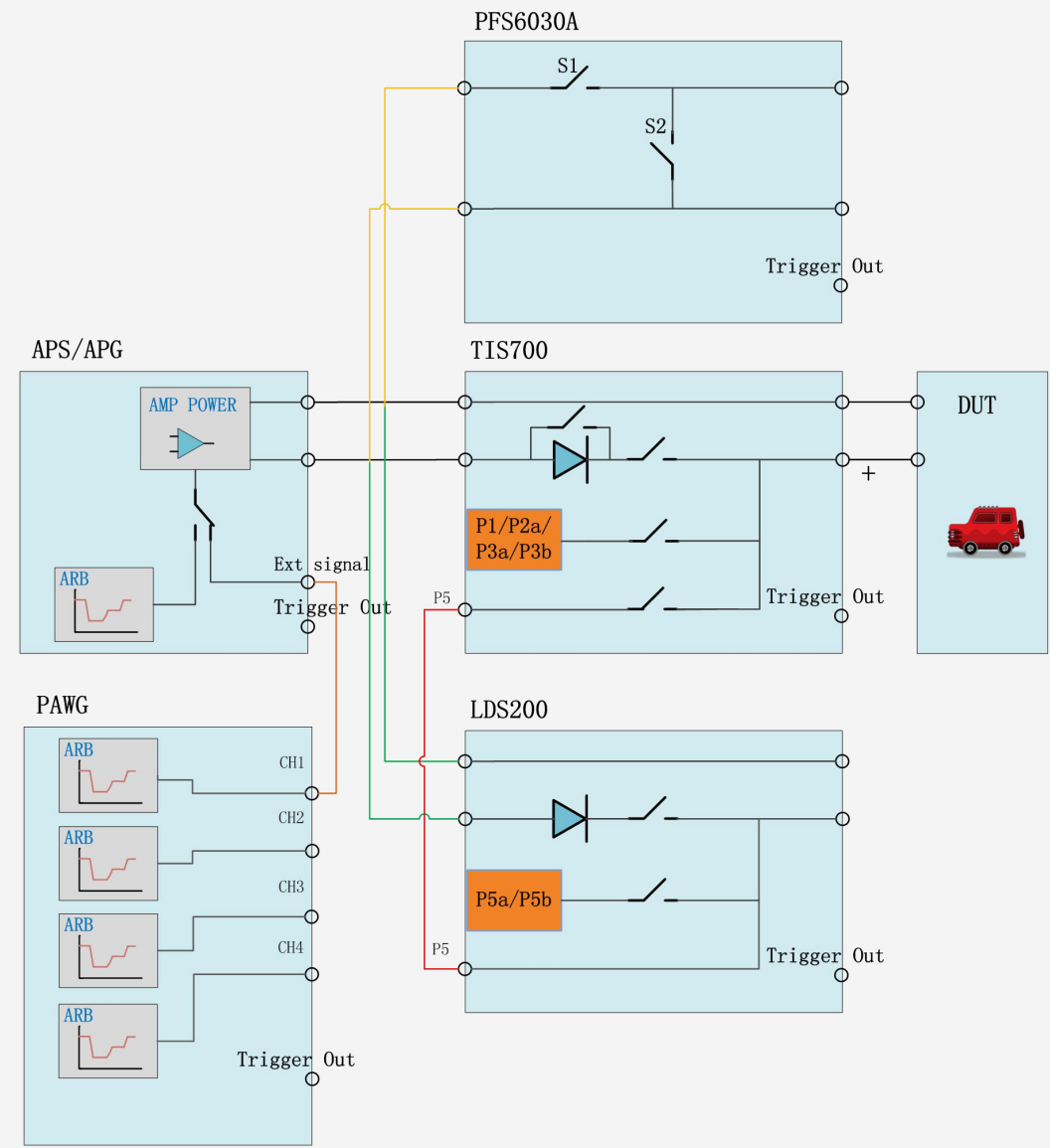
AutoLabTM software



More than 1000 customers
in automotive field

General description

System connection diagram:



General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



General description

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

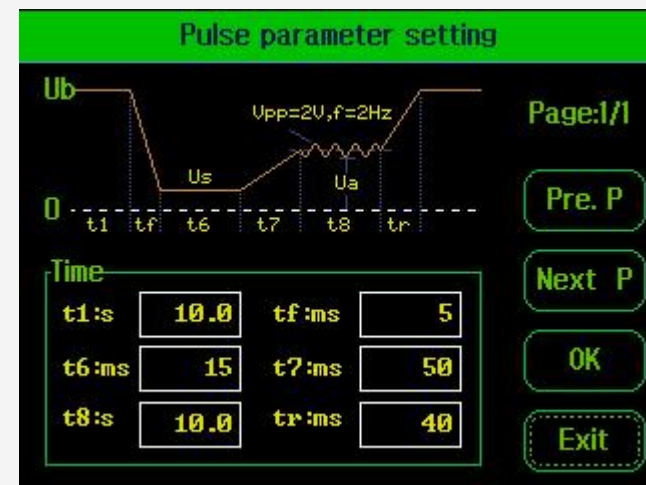
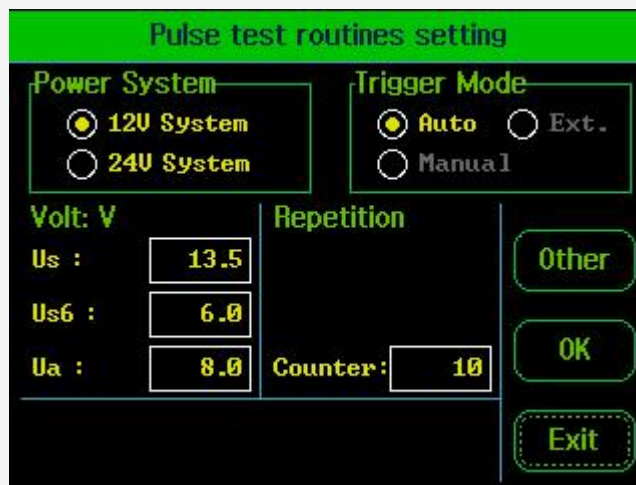
PFS series

VTE 743T1

EDS30V

AutoLab™ software

- Test parameters real-time visible, convenient check
- Parameters setting with reference waveform



TIS 700 series: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

- ◆ To simulate the transient conduction coupled disturbance along the supply lines, like ISO7637-2 P1,P2,P3a,P3b
- ◆ Internal 60V/30A CDN , up to 200A, it can be used for the whole test system by settings.
- ◆ Multiple internal resistance and pulse width to meet different standard requirements



TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

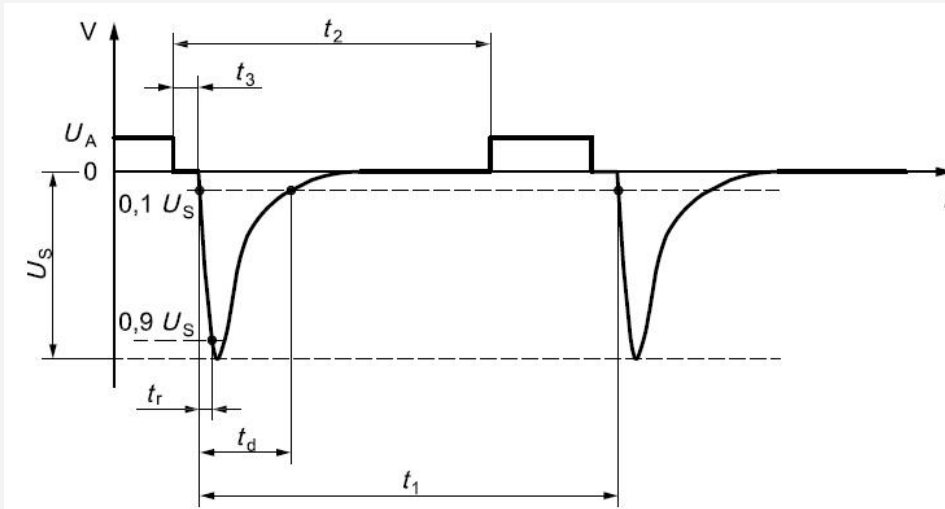
PFS series

VTE 743T1

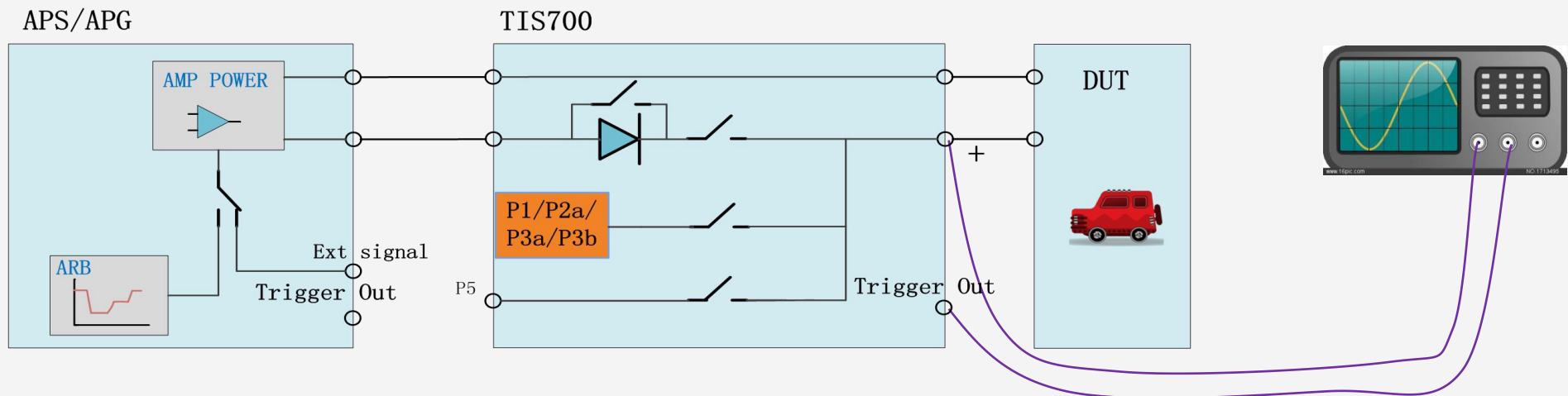
EDS30V

AutoLab™ software

Example: P1 Test Setup



- APS/APG as DUT power supply or using external battery
- Automatic injection waveform as per the selected waveform and parameters after starting test
- Make sure the selected model can withstand a sufficiently large current, because some DUT have a very high current (e.g. Motor load).



TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

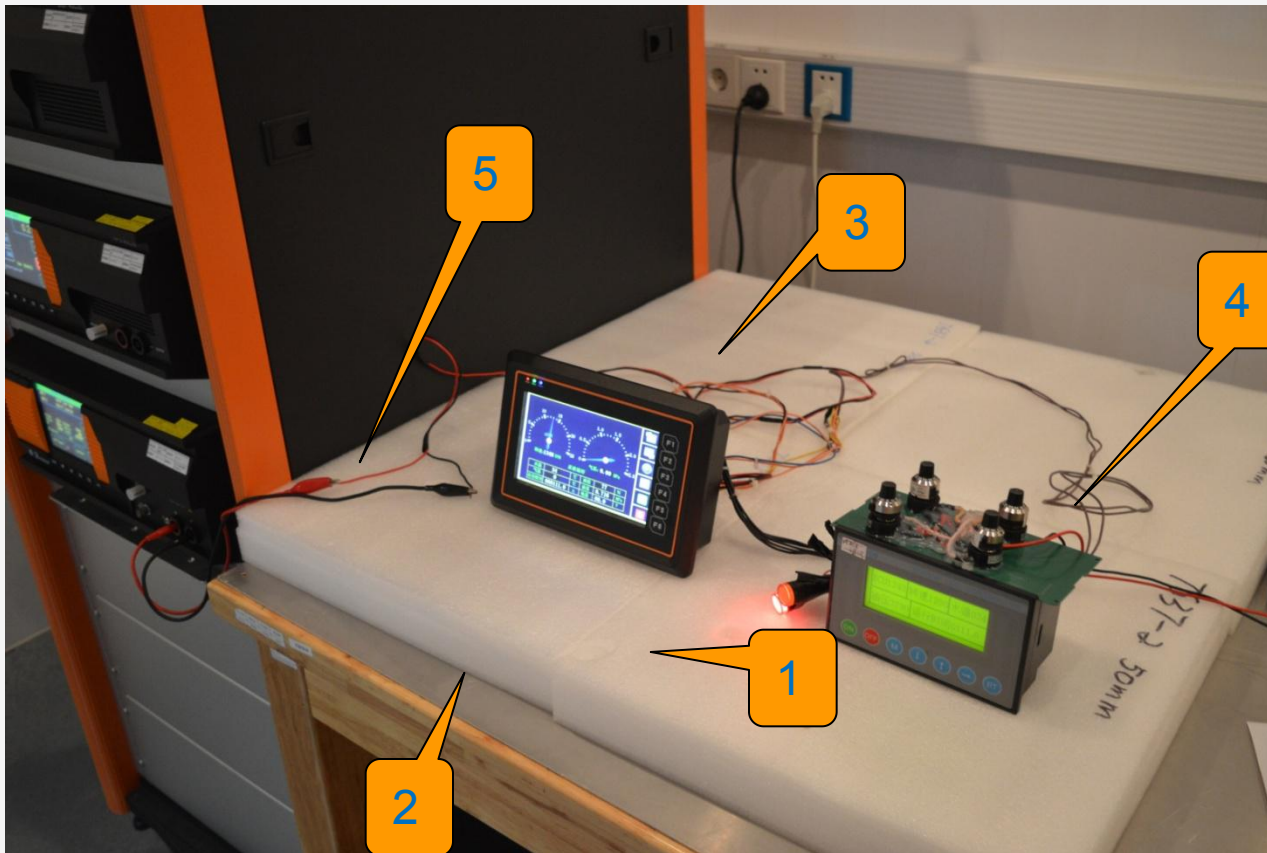
VTE 743T1

EDS30V

AutoLab™ software

Application Example: Instrument panel

Supply disconnection from inductive loads (e.g. Wiper motor) will bring interferences like ISO7637-2 P1 to other devices. The instrument panel screen may flicker, even communication data abnormal.



1. Support plate, thickness $50 \pm 5\text{mm}$
2. Ground metal plane
3. Vehicle-mounted instrument panel
4. Instrument data simulator
5. Power cord (length $500 \pm 100\text{mm}$ for P3a/P3b)

TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

TIS700 series model

According to the current of CDN:

TIS 700 - X X

None : 60V / 30A

-60 : 60V / 60A

-100 : 60V / 100A

-200 : 60V / 200A

TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



Micro pulse P1/P2a	
As per Standard	ISO7637
Pulse amplitude	30-600V
Pulse polarity	Positive/Negative
Source Impedance (Ri)	2Ω, 4Ω, 10Ω, 30Ω, 50Ω
Pulse rise time	0.5~1us, 1.5~3us, no load
Pulse duration time	50us, 12us, 1ms, 2ms, 1.5ms, 0.2ms, 0.3ms, 0.5ms +/-20%
Pulse interval time	0.2s - 60s
Numbers of pulse	1 - 9999
Power of EUT	Max.60V/200A
Trigger mode	Auto, Manual, Outside trigger

TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



EFT/Burst Pulse 3a/3b	
As per Standard	ISO7637
Pulse amplitude	25-700V
Pulse polarity	Positive/Negative
Impedance (Ri)	50Ω
Pulse rise time	5 ns ± 30%
Pulse duration time	150 ns ± 45 ns
Numbers of pulse	1 – 200
Pulse interval time	50ms - 999ms
Pulse frequency	0.1 kHz - 200 kHz
Test time	1s - 50000s
Power of EUT	Max.60V/200A
Trigger mode	Auto, Manual, Outside trigger

APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software

- ◆ To simulate environmental conditions and testing for different electrical load, e.g. ISO16750, LV124, etc
- ◆ APS series with current up to 30A, voltage up to 60V
- ◆ APG series with current up to 200A, voltage up to 60V
- ◆ Different impulse current to meet many types of test equipments
- ◆ Internal waveform generator, support any standard waveform with AutoLab software editing frequency <30KHz
- ◆ Support external arbitrary waveform generator(PAWG) input in order to complete more complex and higher frequency standard waveforms
- ◆ For voltage 40V, current <15A, DCP auxiliary power source is not needed.
- ◆ Internal spike pulse generation circuit to meet similar GMW3172 standard requirements



APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

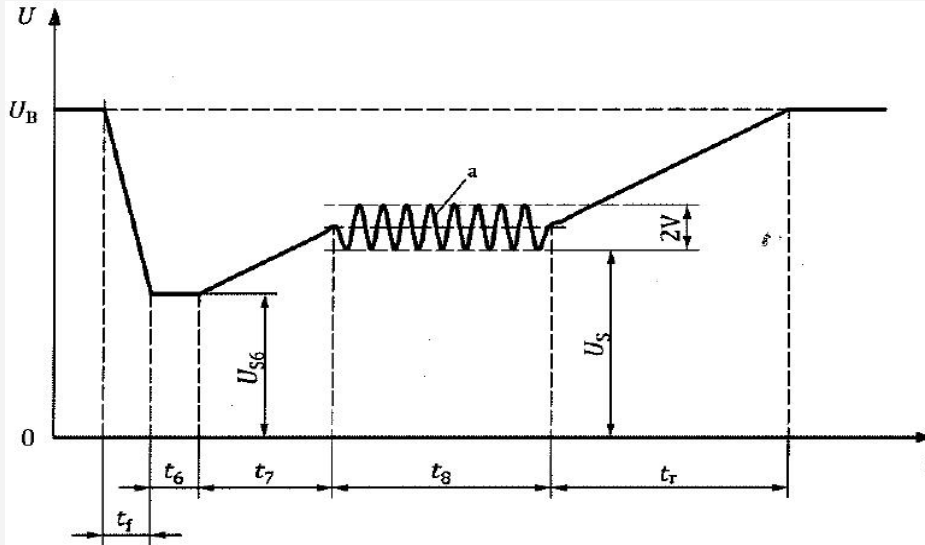
VTE 743T1

EDS30V

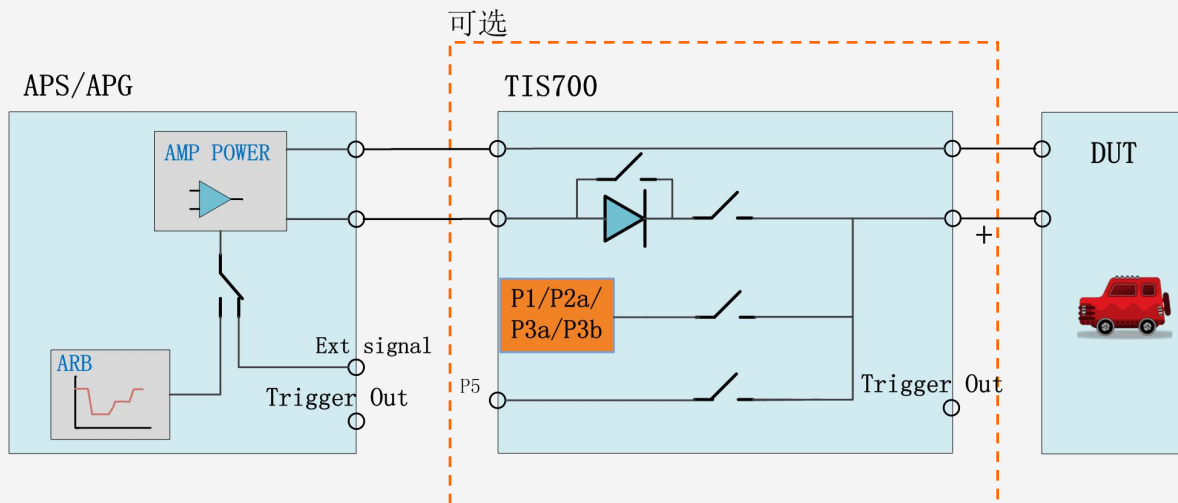
AutoLabTM software



Example: Start-up waveform Test Setup



- Connect DUT directly to APS/APG output or TIS700 CDN output
- Optional for internal waveform generator or using external waveform generator injection, e.g. PAWG100
- Determine DUT impulse current and select correct APS/APG model



APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

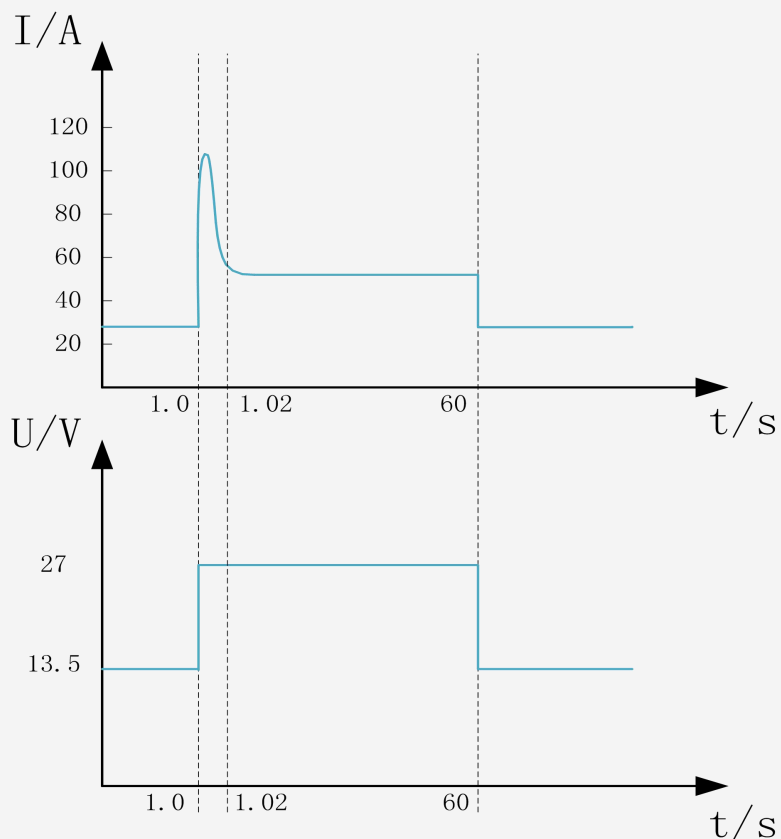
PFS series

VTE 743T1

EDS30V

AutoLab™ software

Application Example 1: Cooling fan



Perform ISO16750 over voltage test : the current is 24A under rated voltage 13.5V, when the voltage jumps to 27V from 13.5V, the impulse current can be up to 110V with pulse width 20ms, then stabilize to be 48A.

Usually, motors or other inductive loads has this feature. Products with a large energy storage capacitor also have a high impulse current in the instant of power on.

So for this product, APS/APG more than 50A and impulse current $>110A$ should be selected.

APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

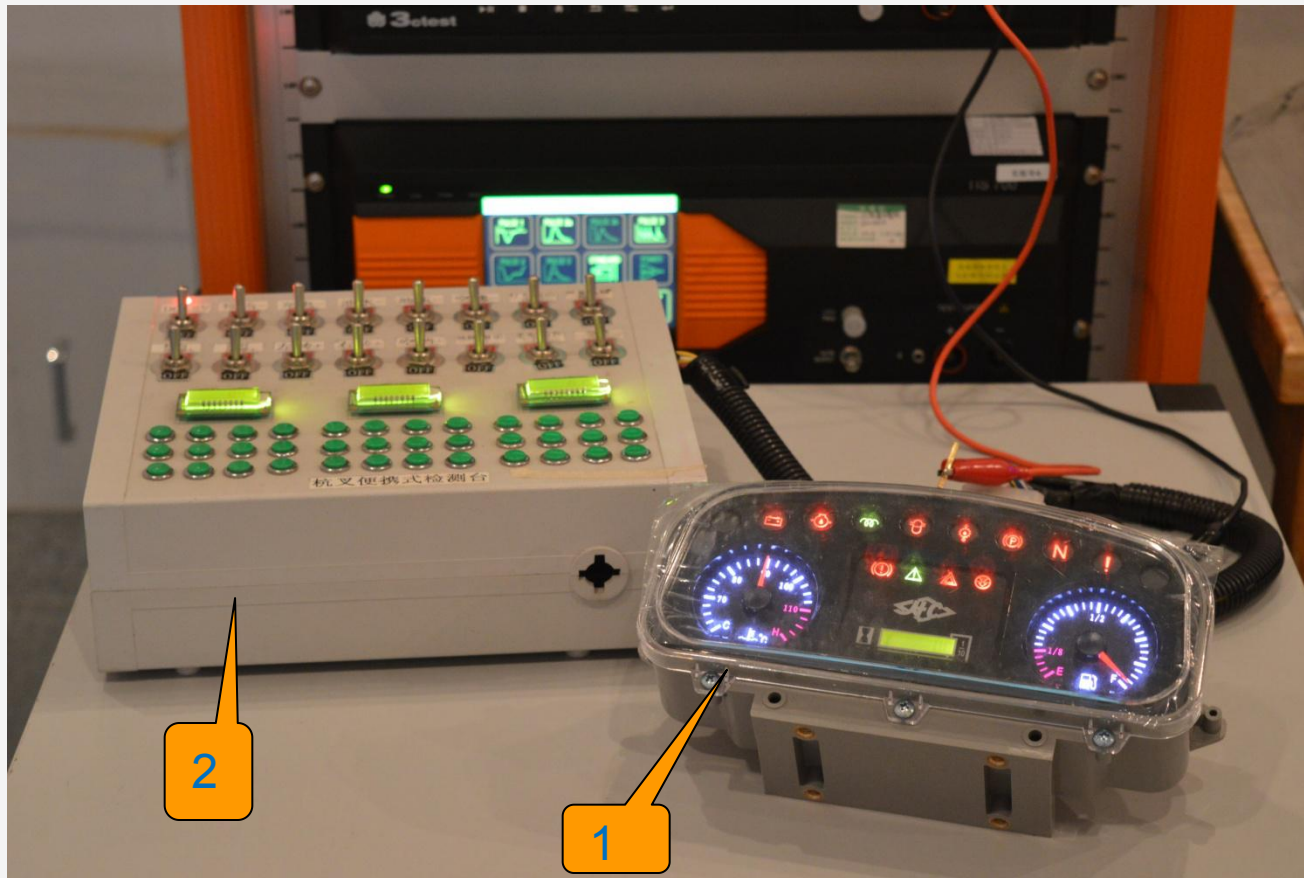
EDS30V

AutoLab™ software



Application Example 2: Instrument panel

The voltage reduction affected by the internal combustion engines starting may lead to the instrument power off and can't be restarted again.



1. Instrument panel
2. Instrument data simulator

APS/APG series: environmental conditions of power supply test

General description

APS /APG series

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software

APS 40 C 30 D . X

APS series small current
APG series large current

40 40V
60 60V

Current value
APS: 5, 10, 15, 20, 30
APG: 40, 50, 60, 80, 100

None : unipolarity
D : bipolar

Only for APG to meet different
impulse current requirements

■ APS series power supply (models)

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

Generator & power amplifier	DC mains	Parameters
APS (unipolarity)		
APS 40C05	Built-in	DC 40V 5A max 15A@500ms
APS 40C10	Built-in	DC 40V 10A max 15A@500ms
APS 40C15	Built-in	DC 40V 15A max 15A continuous
APS 40C20	DCP 40C20	DC 40V 20A max 30A @500ms
APS 40C30	DCP 40C30	DC 40V 30A max 60A@500ms
APS (Bipolar)		
APS 40C05D	DCP 40C05D	DC 40V 5A max 30A@500ms
APS 40C10D	DCP 40C10D	DC 40V 10A max 30A@500ms
APS 40C15D	DCP 40C15D	DC 40V 15A max 30A@500ms
APS 40C20D	DCP 40C20D	DC 40V 20A max 60A@500ms
APS 40C30D	DCP 40C30D	DC 40V 30A max 60A@500ms

APG series power supply (models)

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software

Models	Parameters	Size
APG40C40	Rated 40V 40A max.60A@500ms	19inch /8U
APG40C50	Rated 40V 50A max.60A@500ms	19inch /8U
APG40C60.1	Rated 40V 60A max.60A continuous	19inch /8U
APG40C60.2	Rated 40V 60A max.120A@500ms	19inch /22U
APG40C60.3	Rated 40V 60A max.160A@500ms	19inch /22U
APG60C40	Rated 60V 40A max.80A@500ms	19inch /22U
APG60C50	Rated 60V 50A max.80A@500ms	19inch /22U
APG60C60	Rated 60V 60A max.80A@500ms	19inch /22U
APG60C80	Rated 60V 80A max.150A@500ms	19inch /22U
APG60C100.1	Rated 60V 100A max.150A@500ms	19inch /22U
APG60C100.2	Rated 60V 100A max.200A@500ms	19inch /22U



PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



- ◆ To simulate arbitrary waveform in the similar power testing standard like ISO16750, LV124, etc
- ◆ Support 4 channels output at the same time, sync time adjustable
- ◆ Support ramps, triangle, sine, square, exponential wave edit arbitrarily, dynamic adjusting amplitude, offset and frequency
- ◆ Support *.csv file, e.g. waveform stored in oscilloscope or edited by excel
- ◆ $f_{max} \leq 500\text{kHz}$
- ◆ DA trigger rate 25MSPS, waveforms with more accurate details because of this high trigger rate
- ◆ Trigger output signal can be set to be at any time, monitoring waveform details by oscilloscope.

PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

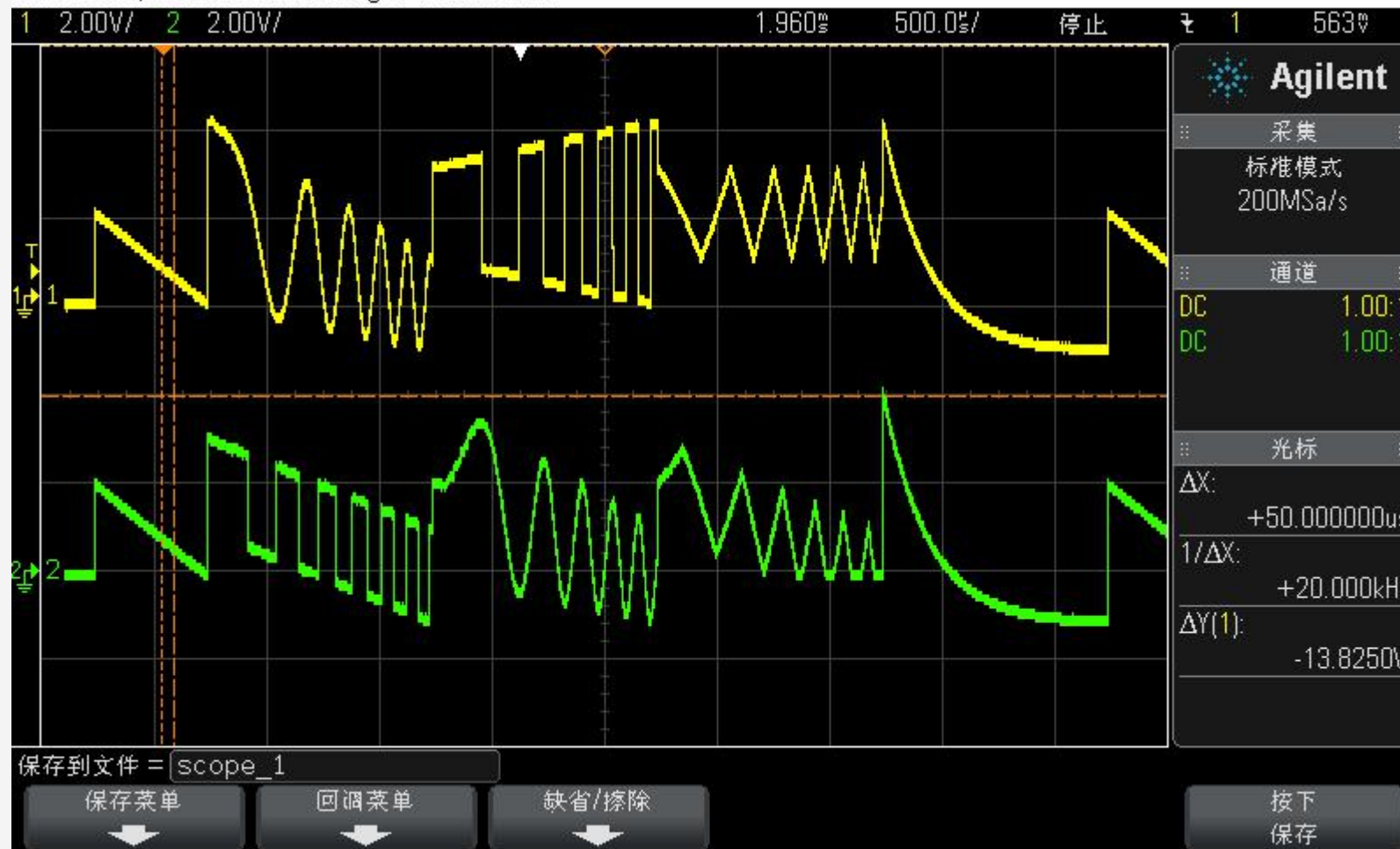
VTE 743T1

EDS30V

AutoLab™ software



DSO-X 3012A, MY52160999: Wed Aug 31 11:08:54 2016



PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

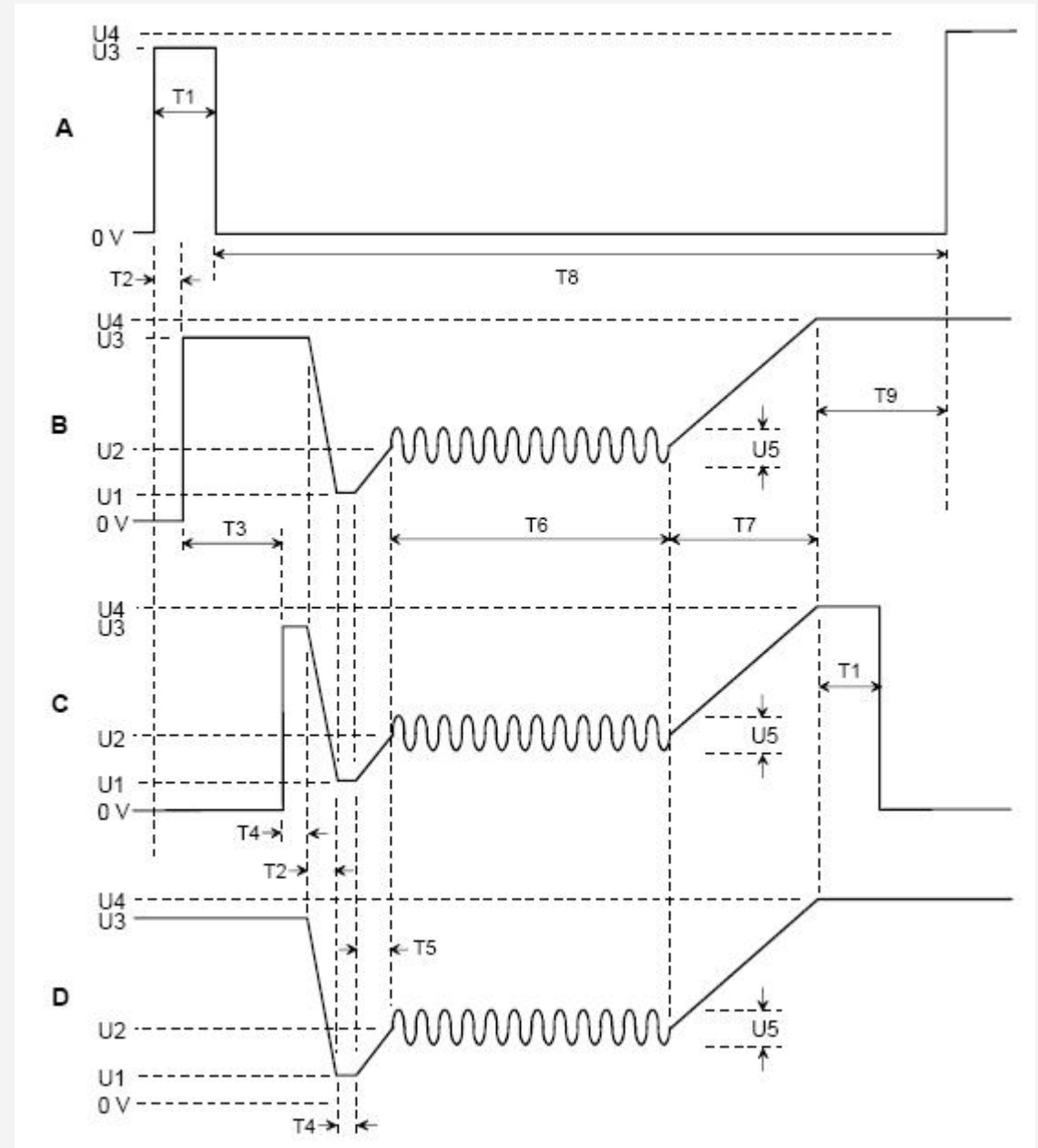
VTE 743T1

EDS30V

AutoLabTM software

Example: Setup of CI230 in Ford ES-XW7T-1A278-AC 2003

- Choose the standard in AutoLab library or edit needed waveform by yourself, confirm the correlation of sync time among 4 channels.
- APS/APG is needed for power output.
- Can set trigger point at any time of waveform in Channel 1 to observe waveform



PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

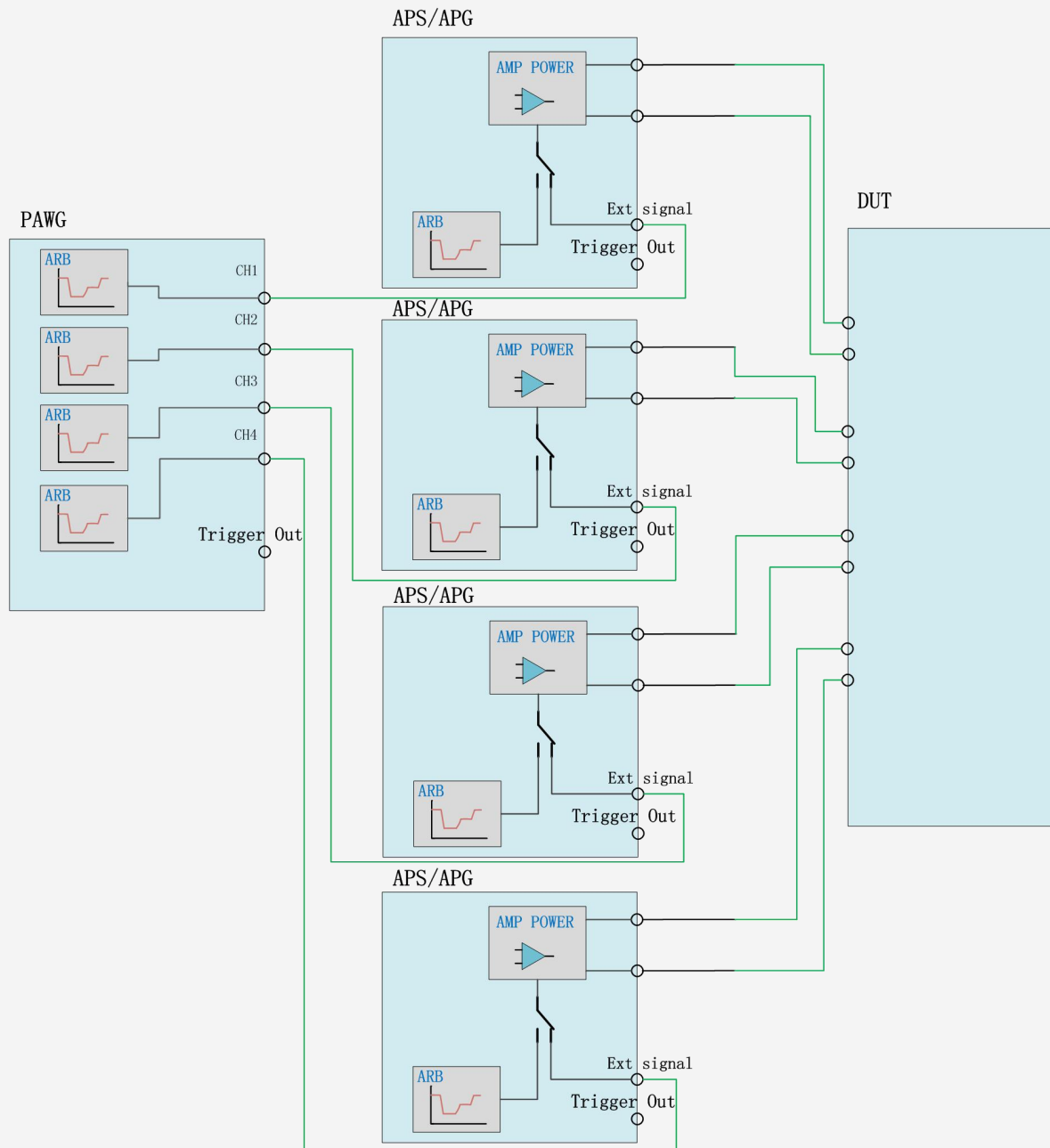
LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- For different DUT, additional auxiliary power supply or additional 1 PCS APS/APG is needed possibly.
- Output current and protection parameters depends on APS/APG.

PAWG series arbitrary waveform generator

PAWG series

PAWG 100 D

D: 2 channels
F : 4 channels

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

N u m b e r o f channels	1ch~4ch
Sync	Sync accuracy among channels: less than 1us , adjustable sync time 0.1-100us
Waveform type	Ramps, triangle, sine, square, exponential wave (oscilloscope stored or self-define file .csv)
Amplitude and offset	Static, linear
F r e q u e n c y ramping	Static, linear, log(base 10)
Start/End phase angle	0 ~ 359° 1°step
Rectification	None, positive, negative, bridge rectification
Frequency	0.01 ~ 500kHz
W a v e f o r m trigger rate	25MSPS per channel
Output voltage range	0 ~ +/- 10V (with APS/APG, it depends on the amplification factor and range of APS/APG.)
rise/fall time	≤100ns @20Vpp
Segments	≤1000

LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- ◆ To simulate load dump test like battery disconnected during engine running, e.g. ISO16750 load dump
- ◆ Internal 60V/30A CDN, up to 200A
- ◆ Meet rising edge $\leq 1\mu\text{s}$, $10\mu\text{s} \sim 10\text{ms}$ adjustable (especially for Japanese standard)
- ◆ Support +/- polarity waveform switching
- ◆ Pulse duration up to 1200ms
- ◆ Built-in load dump suppression waveform, e.g. P5b

LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

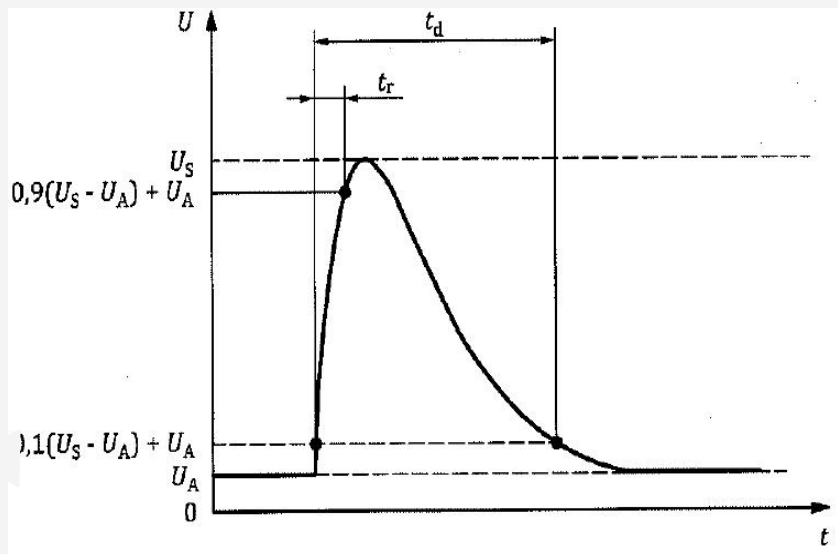
VTE 743T1

EDS30V

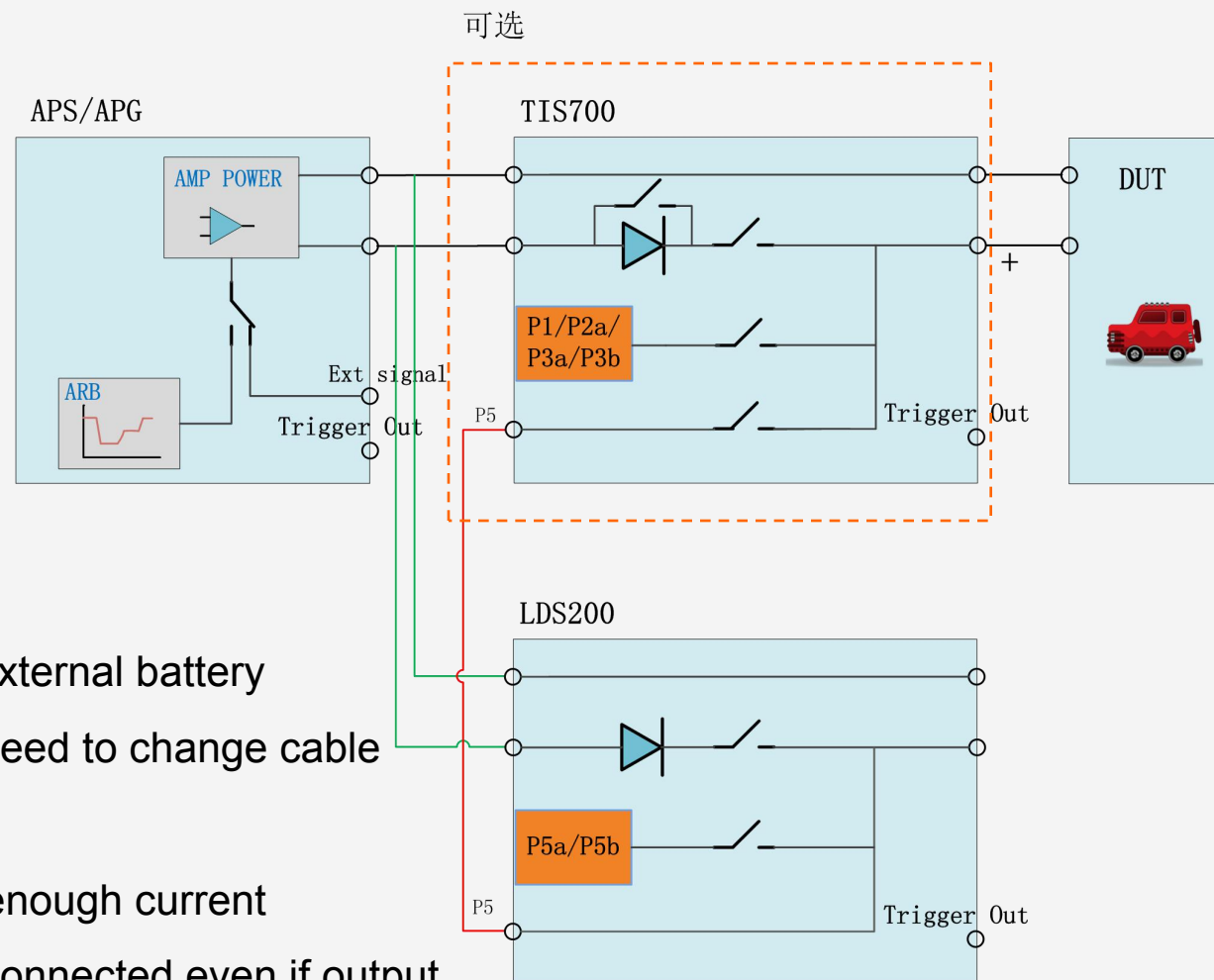
AutoLab™ software



Example: Load Dump Test Setup



- APS/APG as DUT power source or using external battery
- Optional for output from TIS700 CDN (no need to change cable connections) or from its own CDN
- Choose proper models to make CDN has enough current
- DUT power supply on rear panel must be connected even if output from TIS700 CDN in order to test DUT voltage and superpose pulse waveform.



LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

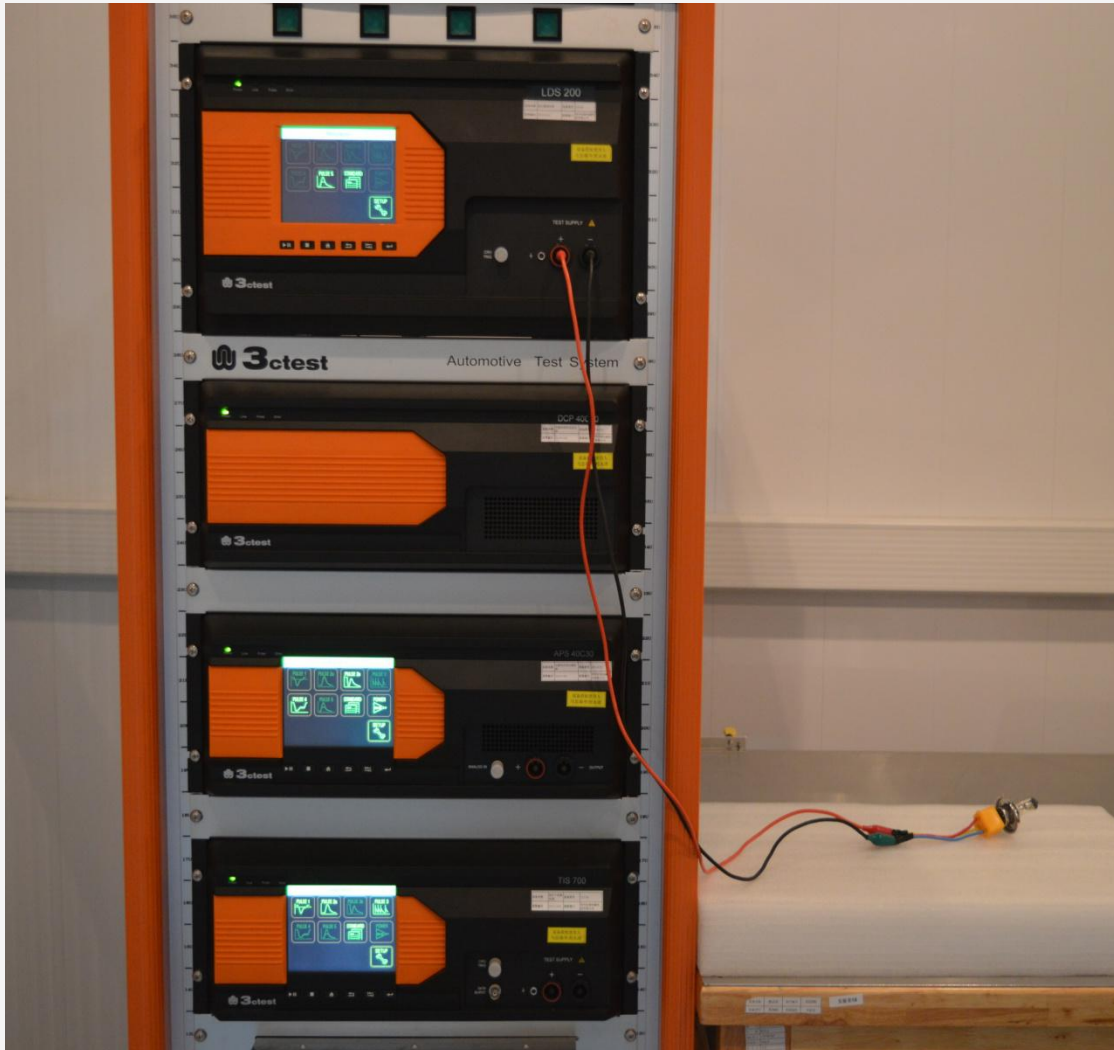
VTE 743T1

EDS30V

AutoLab™ software



Application 1: Headlight bulb



- While the electric generator charging to battery, the generator may produce a high energy pulse if battery is disconnected accidentally which may cause the damage of automotive devices.

LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

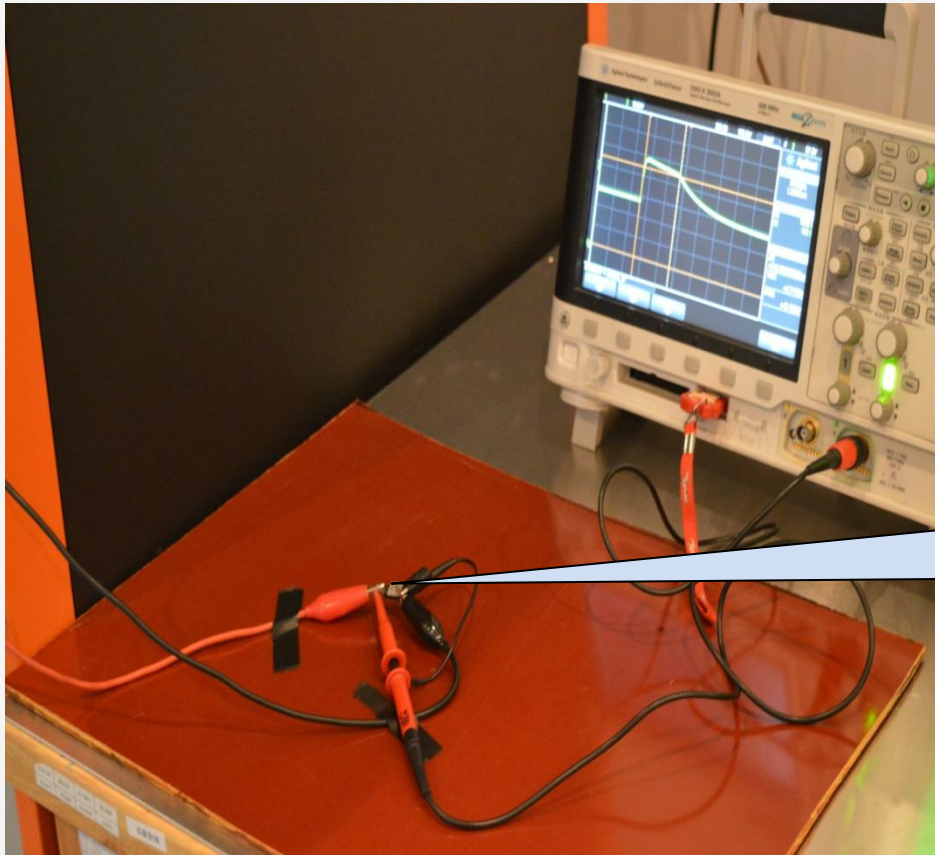
EDS30V

AutoLab™ software



Application 2: Electronic components test

TVS is widely used as protection component in the electronic circuit design.



e.g. GPS, Rear view camera,
etc which often use TVS to
resist interference like P5 pulse.



LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

LDS200 series

LDS 200 D N 30

None : ISO7637, ISO16750
load dump

Rising edge 5 ~ 10 ms

D: Rising edge $\leq 1\mu\text{s}$
10 μs ~ 10ms
+/- polarity switchable

None: CDN 30A

N30: CDN 30A

N50: CDN 50A

N100: CDN 100A

N200: CDN 200A

LDS 200: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



LDS200N XX	
Standards complied with	ISO7637, ISO16750
Pulse Amplitude	30-210V, 0.1V steps
Clamping voltage	15-200V, 0.1V steps
Impedance (Ri)	0.5-8Ω, 0.5Ω adjustable
Rise time	5-10ms
Duration time	40-1200ms, 1ms adjustable
Output mode	Single, Continuous, Program control 1-9999
Output	Can connect to TIS700 EFT/Burst Simulator
Coupling	Coupling to the positive polarity of battery
Decoupling	Built-in diode
Power of DUT	Max. 60V/200A
Trigger mode	Auto, Manual, Outside Trigger

LDS 200: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



LDS200D XX	
Standards complied with	ISO7637, ISO16750, JASO D1, SAE J1455
Pulse Amplitude	30-210V, 0.1V steps
Clamping voltage	15-200V, 0.1V steps
Pulse polarity	+ / -
Impedance (Ri)	0.5-38 Ω , 0.1 Ω adjustable
Rise time	$\leq 1\mu s$, 10 $\mu s \sim 10ms$ adjustable
Duration time	40-1200ms, 1ms adjustable
Output mode	Single, Continuous, Program control 1-9999
Output	Can connect to TIS700 EFT/Burst Simulator
Coupling	Coupling to the positive polarity of battery
Decoupling	Built-in diode
Power of DUT	Max. 60V/200A
Trigger mode	Auto, Manual, Outside Trigger

PFS series – automotive power fail simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- ◆ To simulate voltage dips and interruption tests
- ◆ Internal 60V/30A CDN, up to 200A
- ◆ Meet rise/fall edge $< 1\mu s$
- ◆ Output impedance, high resistance/low resistance switchable
- ◆ Applicable for AutoLab software, support many voltage dips and interruption standards



PFS series – automotive power fail simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

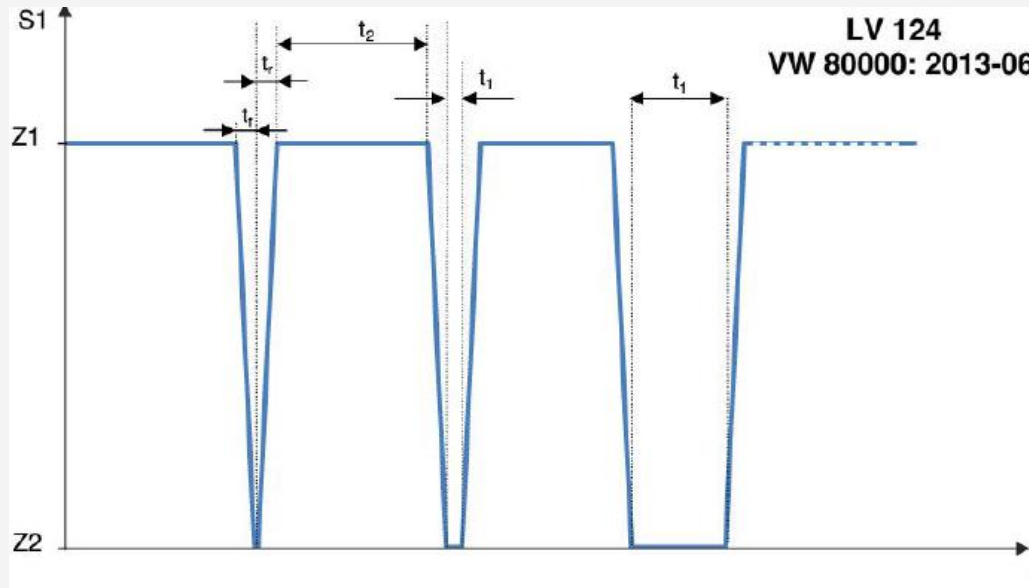
VTE 743T1

EDS30V

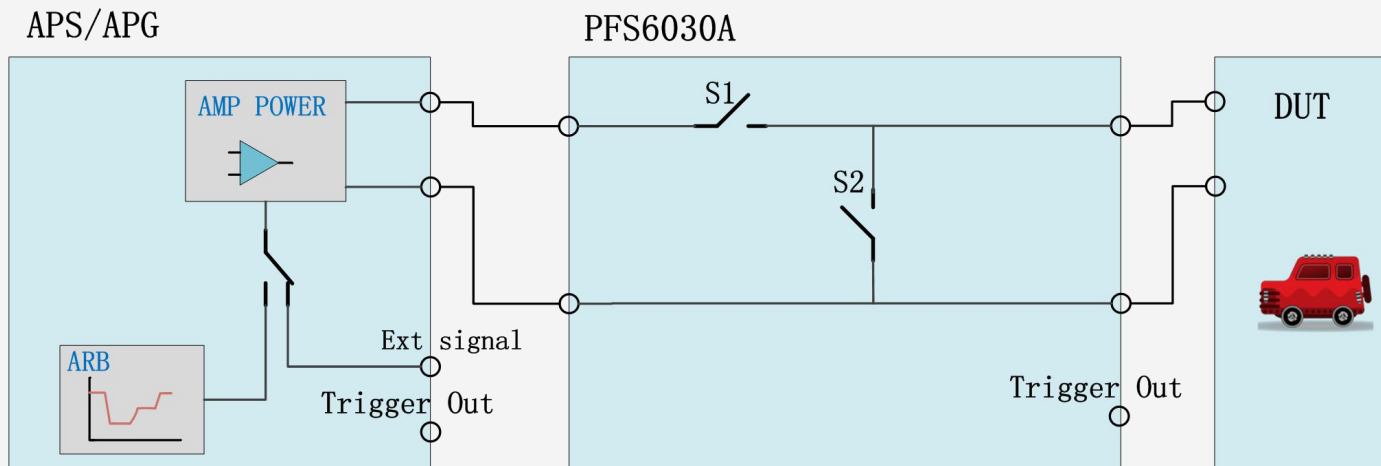
AutoLab™ software



Example: LV124 E-10 Test Setup



- ◆ When $t1 = 10\mu s$, $t_r/t_f \leq 0.1 * t1 = 1\mu s$, rise/fall edge is very demanding.
- ◆ When calibration with 1ohm resistance, confirm its power to avoid over current damage. Non-inductive resistance is needed.



PFS series – automotive power fail simulator

General description

PFS60 series

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



PFS 60 30 A

30: CDN 30A
50: CDN 50A
75: CDN 75A
100: CDN 100A
150: CDN 150A
200: CDN 200A

PFS series – automotive power fail simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



PFS series	
Voltage scope	1 - 60 V
Rising/falling time	1ohm,10ohm pure resistive load < 1us High resistance, 1kohm pure resistive load < 10us
Impedance (Ri)	High resistance / low resistance (<100mohm)
Numbers of pulse	1 - 9999
Power of EUT	Max.60V/200A
Trigger mode	Auto, Manual, Outside trigger

VTE 743T1: automotive transient conducted emission test device

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

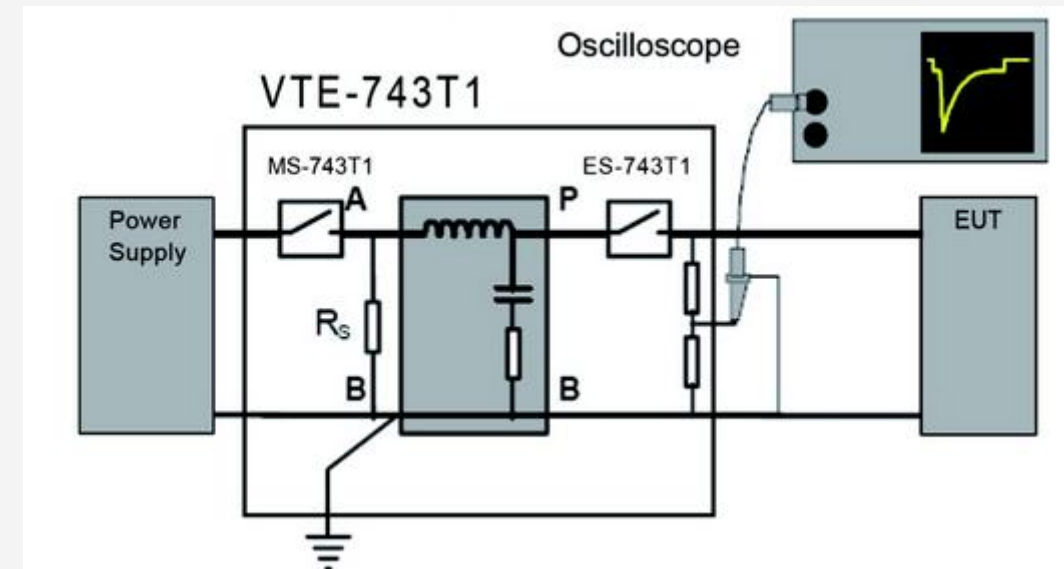
VTE 743T1

EDS30V

AutoLab™ software



- ◆ To simulate DUT transient emission waveform when power on or off randomly at DUT power supply
- ◆ Max.400V
- ◆ Internal 10ohm,20ohm,40ohm,120ohm, can be extended to be any external resistance



EDS30V Electrostatic Discharge Simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- ◆ Test voltage: 1000V-30,000V
- ◆ RC modules: 150pF/2000 Ω ; 330pF/2000 Ω ; 150pF/330 Ω ; 330pF/330 Ω
- ◆ Polarity: +/-
- ◆ LCD Touch screen operation
- ◆ As per ISO 10605
- ◆ With battery powered function

AutoLabTM software

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



- ◆ Support the test control of all instruments in this system
- ◆ Fully standard library (international and manufacturer standards)
- ◆ Simple and easy, nearly complete tests with one-key after configuration
- ◆ Can record test data and print report
- ◆ Support user revise standards and save to improve tests conveniently
- ◆ Chinese/English switchable



➤ Support Windows XP/7/8/10

AutoLab

File View Test Settings Log Help

Standard Selection:

Pulse test interface

Fast Test

Standard Library

Device Management

Test sequence

Parameters

Waveform

Test control

Test report

Device Manager

- TIS 700 - 192.168.0.1
- APS 40C30 - 192.168
- LDS 200 - 192.168.0.1
- PWG4 - 192.168.0.14

Test sequence

Start

End

Pulse parameters

Equipment

Generator

Generator

Line ON/OFF

General

Us

Pulse graphics

pulse1_underprogram Time

Approximate test time

00.00:00:50

Sequence repetition

100

Count

None

Ready

Time elapsed

00.00:00:00

Message before running

Stop

Current User: admin Login Time: 8/31/2016 8:55:23 AM

40

The screenshot shows the AutoLab Pulse test interface. At the top is a menu bar with File, View, Test, Settings, Log, and Help. Below it is a toolbar with icons for file operations and test execution. The main window is divided into several panels. On the left is the 'Device Manager' panel showing a list of devices: TIS 700 - 192.168.0.1, APS 40C30 - 192.168, LDS 200 - 192.168.0.1, and PWG4 - 192.168.0.14. The central area contains the 'Test sequence' panel with a 'Start' button and a 'Test sequence' list showing 'P1Pulse None 00.0'. To the right of the test sequence is the 'Pulse parameters' panel, which includes sections for 'Equipment' (Generator, Line ON/OFF), 'General' (Us), and 'Timing' (t1, t2, t3). Below the parameters is the 'Pulse graphics' panel showing a waveform plot of voltage (V) over time (t). The plot shows a pulse with various timing parameters labeled: t_1 , t_2 , t_3 , t_4 , t_5 , t_6 , t_7 , t_8 , t_9 , t_{10} , t_{11} , t_{12} , t_{13} , t_{14} , t_{15} , t_{16} , t_{17} , t_{18} , t_{19} , t_{20} , t_{21} , t_{22} , t_{23} , t_{24} , t_{25} , t_{26} , t_{27} , t_{28} , t_{29} , t_{30} , t_{31} , t_{32} , t_{33} , t_{34} , t_{35} , t_{36} , t_{37} , t_{38} , t_{39} , t_{40} , t_{41} , t_{42} , t_{43} , t_{44} , t_{45} , t_{46} , t_{47} , t_{48} , t_{49} , t_{50} , t_{51} , t_{52} , t_{53} , t_{54} , t_{55} , t_{56} , t_{57} , t_{58} , t_{59} , t_{60} , t_{61} , t_{62} , t_{63} , t_{64} , t_{65} , t_{66} , t_{67} , t_{68} , t_{69} , t_{70} , t_{71} , t_{72} , t_{73} , t_{74} , t_{75} , t_{76} , t_{77} , t_{78} , t_{79} , t_{80} , t_{81} , t_{82} , t_{83} , t_{84} , t_{85} , t_{86} , t_{87} , t_{88} , t_{89} , t_{90} , t_{91} , t_{92} , t_{93} , t_{94} , t_{95} , t_{96} , t_{97} , t_{98} , t_{99} , t_{100} . The bottom of the interface features a 'Test control' panel with buttons for 'None', 'Ready', 'Sequence repetition' (set to 100), 'Count', and a 'Test report' button. A status bar at the very bottom shows 'Current User: admin Login Time: 8/31/2016 8:55:23 AM' and a large '40' in the bottom right corner.

Editing test

File View Test Settings Log Help

Standard Selection:



Device Managem

Test:[Pulse 1](*)

Test:[AutoTest](*)

Test Standard Library

Standards

- ISO16750-2 2006
- ISO16750-2 2012
- ISO7637-2 2004
- ISO7637-2 2011
- VW 80000 2009-10
- VW 80000 2013-06
 - 6.1 E-01 Long-term overv
 - 6.2 E-02 Transient overv
 - 6.2 E-02 Transient overv
 - 6.3 E-03 Transient underv
 - 6.3 E-03 Transient underv
 - 6.4 E-04 Jump start
 - 6.5 E-05 Load dump
 - 6.6 E-06 Superimposed al
 - 6.6 E-06 Superimposed al
 - 6.7 E-07 Slow decrease ar
 - 6.7 E-07 Slow decrease ar

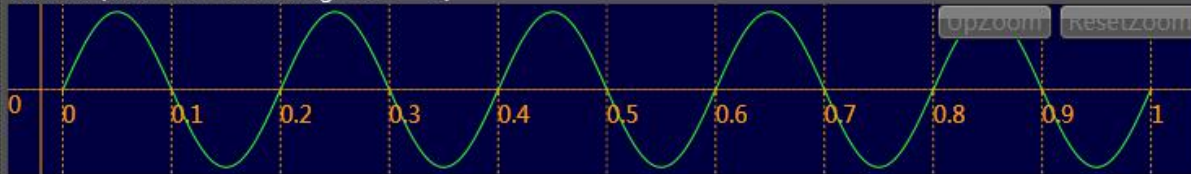
- TIS 700 - 192.168.0.1
- APS 40C30 - 192.168
- LDS 200 - 192.168.0.
- PWG4 - 192.168.0.14

Test sequence

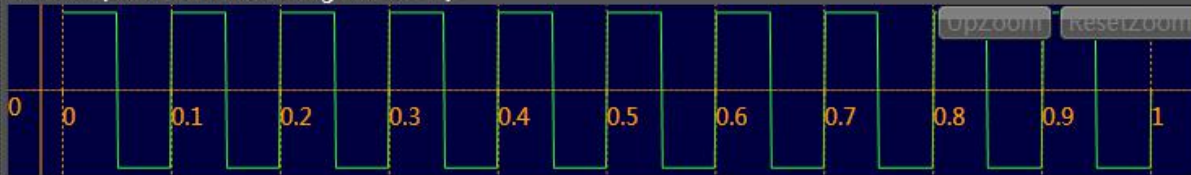


Master Slave 1 Slave 2 Slave 3 All View

Master (Total Number of Segments = 1)



Slave 1 (Total Number of Segments = 1)



Slave 2 (Total Number of Segments = 1)



Slave 3 (Total Number of Segments = 1)



Approximate test time

00.00:00:01

Sequence repetition 1

Count

Rm: ----:--- / 00.00:00:01

Time elapsed

00.00:00:00

None



Message before running



Ready

Current User: admin Login Time: 8/31/2016 8:55:23 AM

AutoLabTM software

General description

Arbitrary waveform editor

TIS 700 series

APS series

PAWG100 series

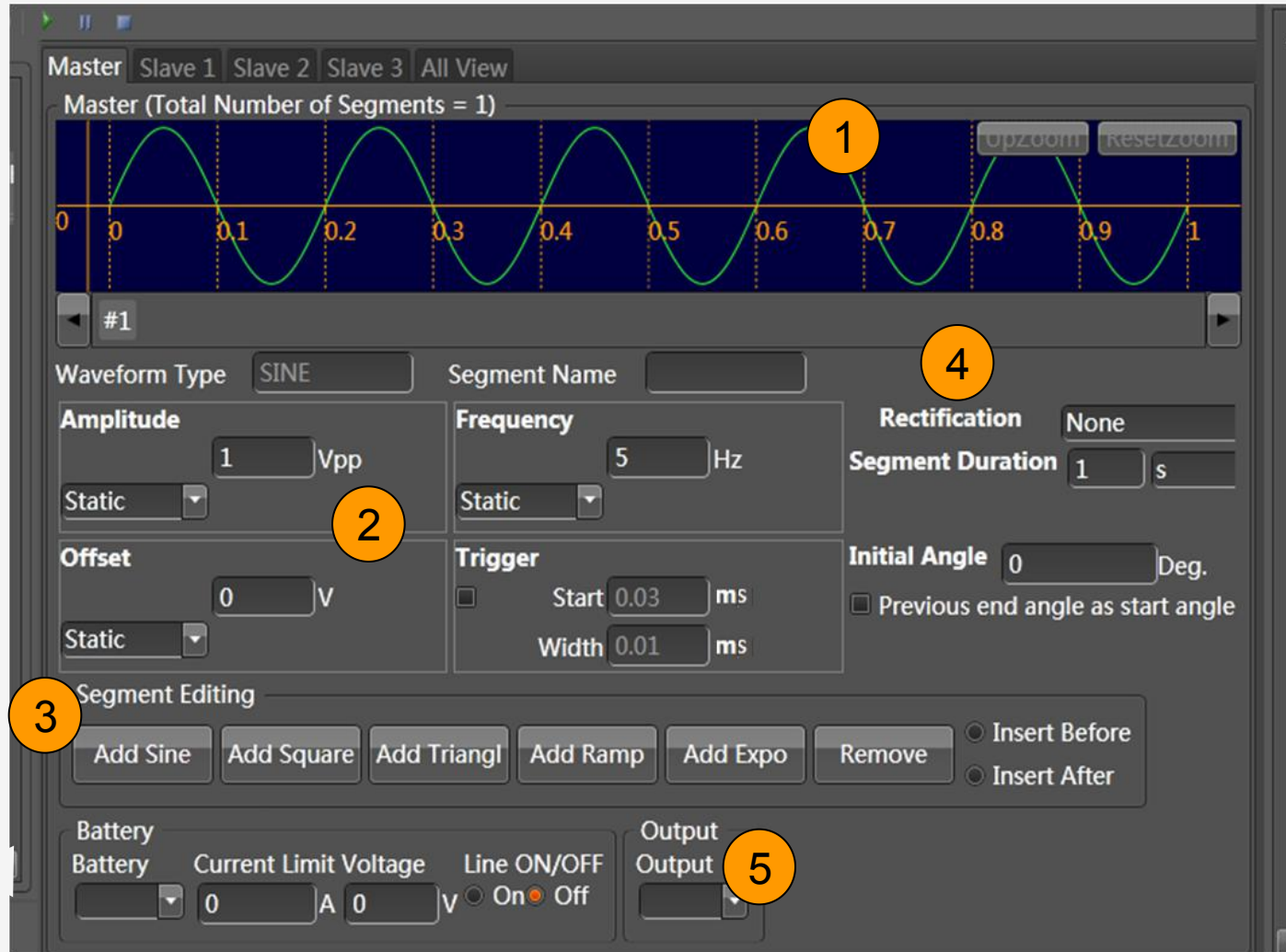
LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



1. Waveform demonstration

2. Parameters setting

3. Added waveform type

4. Rectification mode and starting angle setting

5. DUT setting, determine if output port is TIS700 or not

Test Report

Report configuration...

Company information

Name:

Address:

Phone:

Fax:

Mail:

Template:

☒ Generate report on test completed

Support templates selection

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software

THANK YOU

Company : 3ctest Speaker : Mr. Zhang Time : 2016/09/30

