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automotive **EMC** solutions

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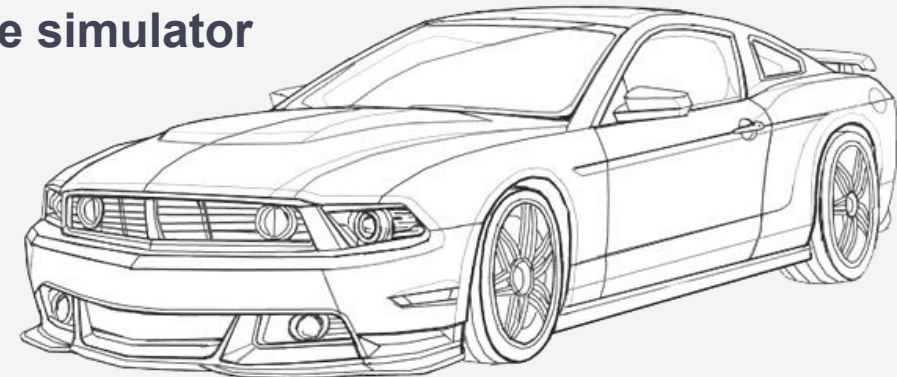
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AutoLab™ software



## General description

### General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

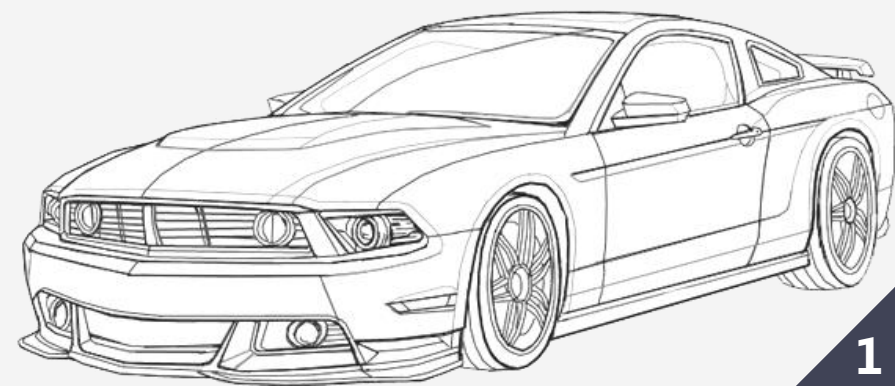
VTE 743T1

EDS30V

AutoLab™ software



- ✦ 完整的汽车EMC测试解决方案
- ✦ 支持众多国际标准和制造商标准
- ✦ Autolab软件提供一键式标准测试和报告生成
- ✦ 内置CDN网络，切换波形无需更换DUT连接
- ✦ 内置保护功能，安全可靠
- ✦ 同步触发示波器，动态监测实验过程



## General description

### General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- 支持的国际标准

ISO7637-2、ISO16750-2、LV124、SAEJ1113、  
GB/T21437-2等

- 支持的制造商标准

Chrysler、Ford 、 BMW、 Nissan、 GMW、 VW、  
PSA等

- 仪器仅内置ISO7637、ISO16750标准库，其它标准需使用 Autolab软件。

## General description (Customers)

### General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



KOSTEC

BWS Testing Laboratory

NOVATEK

世紀民生  
MYSON CENTURY, INC.  
裕隆企業集團

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

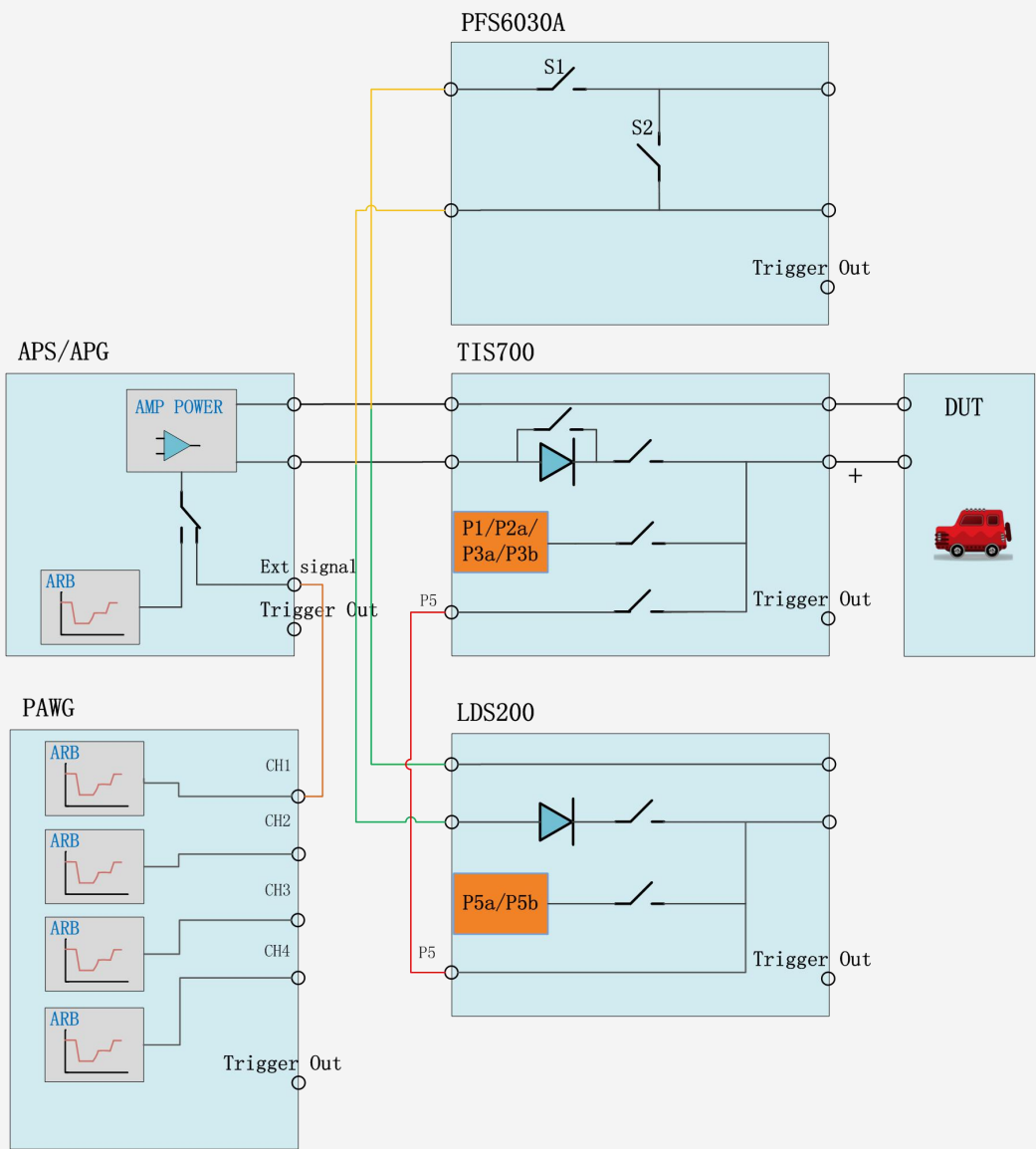
AutoLabTM software



More than 1000 customers  
in automotive field

# General description

系统整体连接图



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

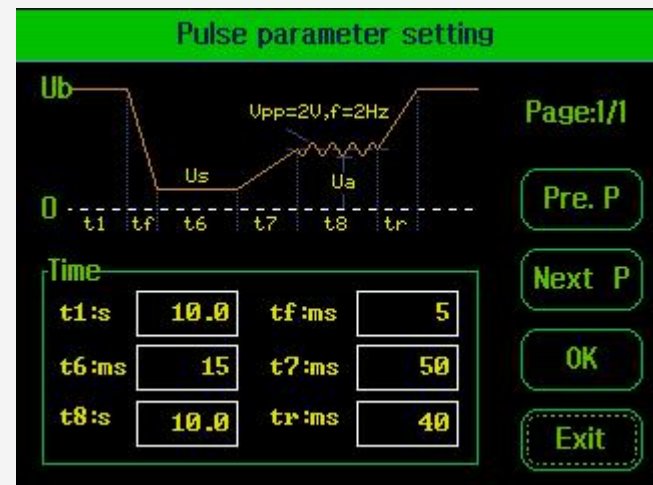
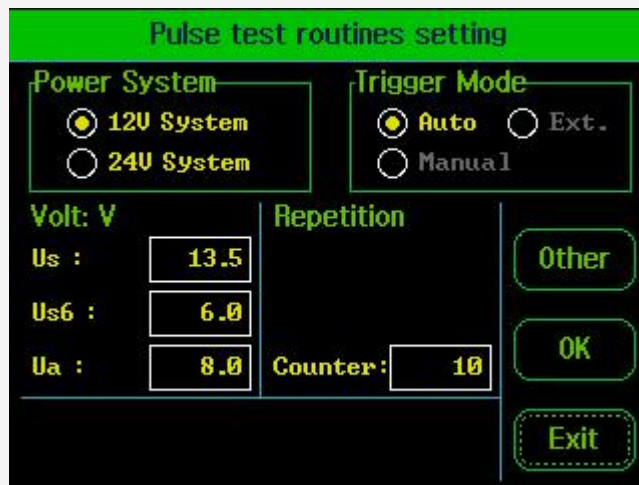
PFS series

VTE 743T1

EDS30V

AutoLabTM software

- 测试参数实时可见，方便检查
- 参数设置有波形参照



## 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

- ◆ 模拟沿电源线的瞬态传导耦合骚扰，如ISO7637-2 P1,P2,P3a,P3b
- ◆ 内置60V/30A CDN网络，最高可达200A。可根据设置切换，做为整个测试系统的CDN网络
- ◆ 多组内阻、脉宽，满足不同标准需要



# TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

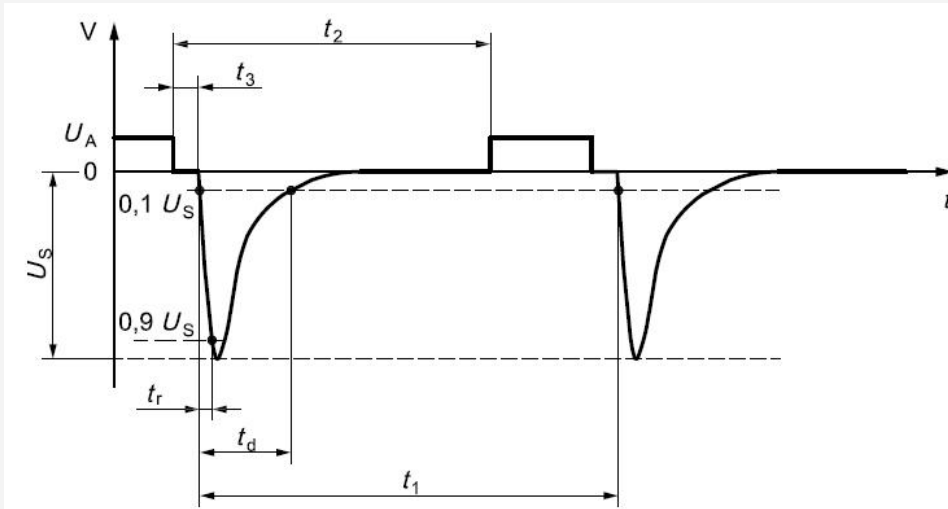
PFS series

VTE 743T1

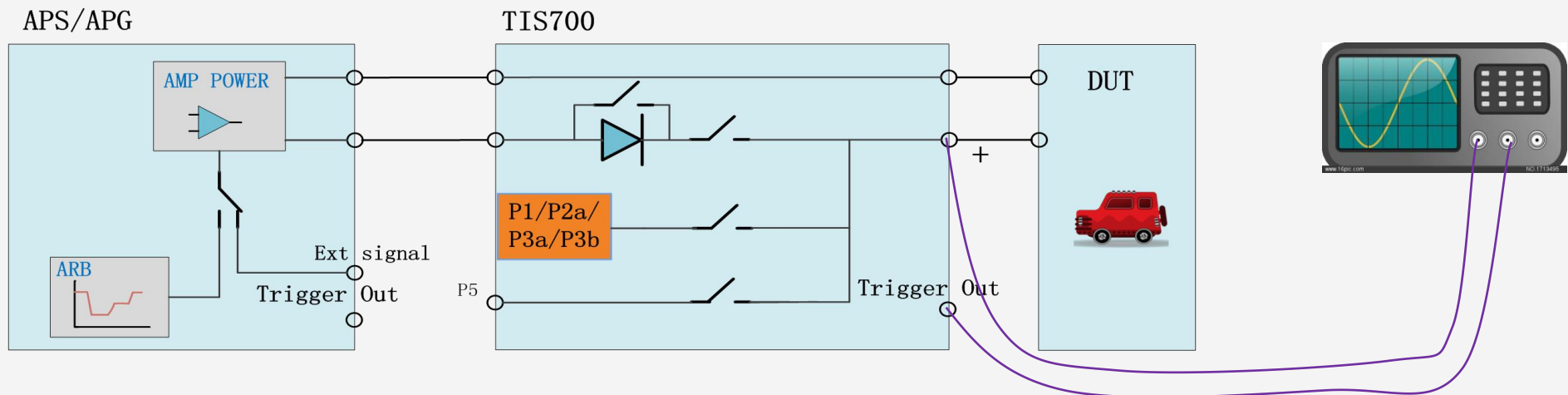
EDS30V

AutoLab™ software

例：P1测试建立（Setup）



- APS/APG做为电源给DUT供电或外接电池
- 测试开始后根据所选波形及参数自动注入波形
- 如果DUT的电流很大（如电机负载），所有使用到的仪器需确定型号，以使CDN网络能承受足够大的电流



# TIS 700: automotive transient immunity test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

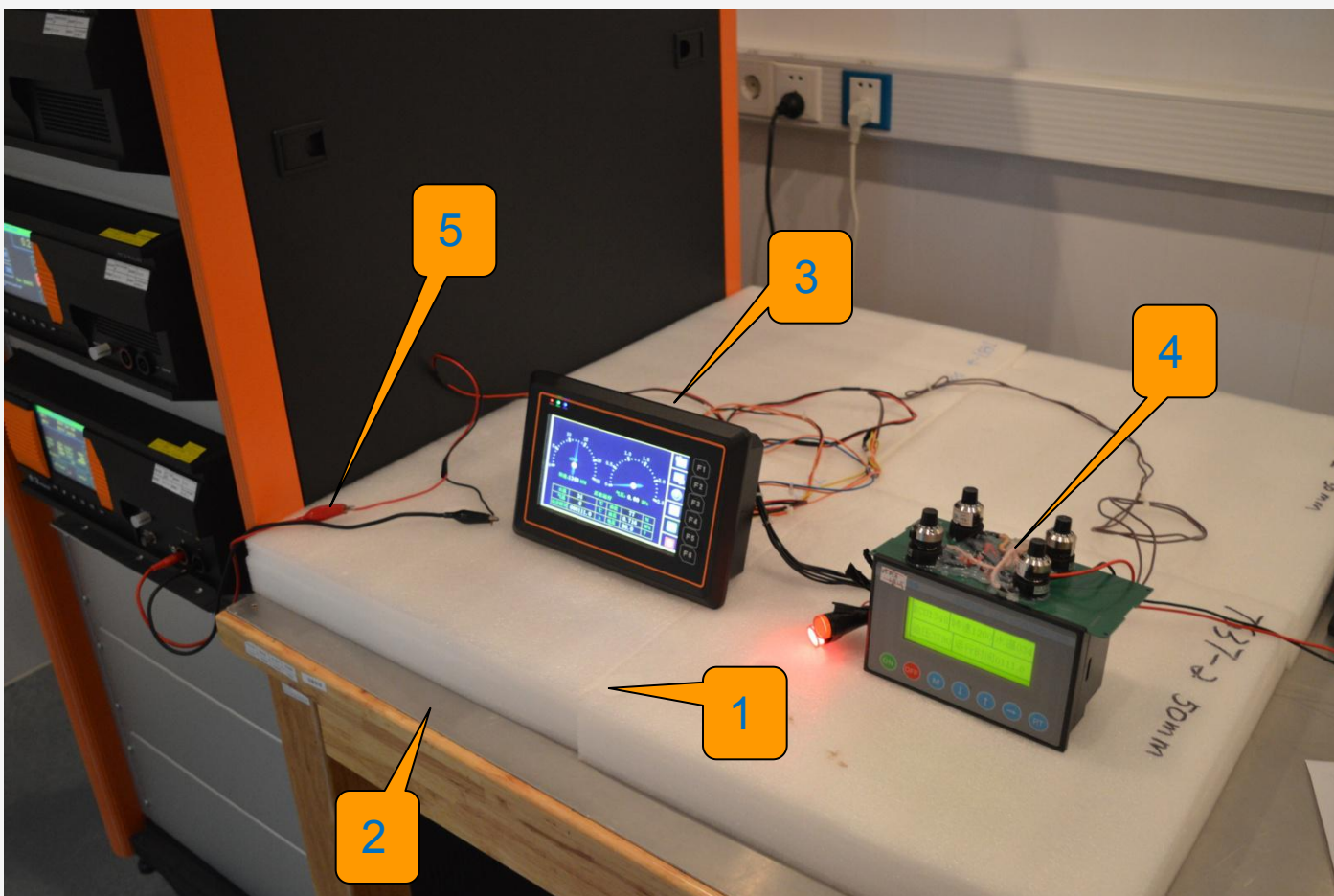
EDS30V

AutoLabTM software

应用案例：仪表盘

当有感性负载（如雨刷电机）断电时，会对电源上其他设备产生ISO7637-2 P1类的干扰。

仪表设计不好时，可能屏幕会闪烁，甚至通讯数据异常



1. 支撑垫(低介电常数), 标准规定厚度 $50 \pm 5\text{mm}$
2. 接地金属板
3. 车载仪表
4. 仪表数据模拟器（车载其他设备环境发送）
5. 电源线（在P3a/P3b规定 $500 \pm 100\text{mm}$ 长）

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

TIS700系列 选型

根据CDN网络允许的电大电流大小划分

TIS 700 - X X

|  |      |              |
|--|------|--------------|
|  | 无    | : 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

### AutoLab™ software

- ◆ 模拟设备在不同电气负荷的电源环境下抗扰度测试。如ISO16750, LV124等
- ◆ APS系列电流高达30A，电压高达60V
- ◆ APG系列电流高达200A，电压高达60V
- ◆ 可选不同冲击电流，满足各种类型测试设备
- ◆ 内置波形发生器，支持Autolab软件编辑频率<30KHz任意标准波形
- ◆ 支持外部任意波形发生器输入，完成更复杂，频率更高的标准波形
- ◆ 电压40V, 电流<15A产品，无需使用DCP辅助电源
- ◆ 内置尖脉冲发生电路，满足GMW3172类似标准的需要



# APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

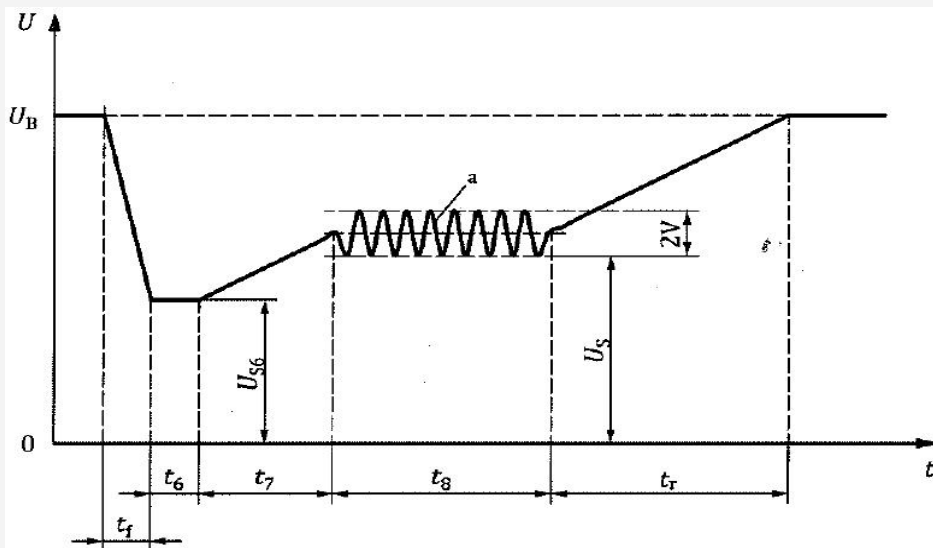
VTE 743T1

EDS30V

AutoLab™ software

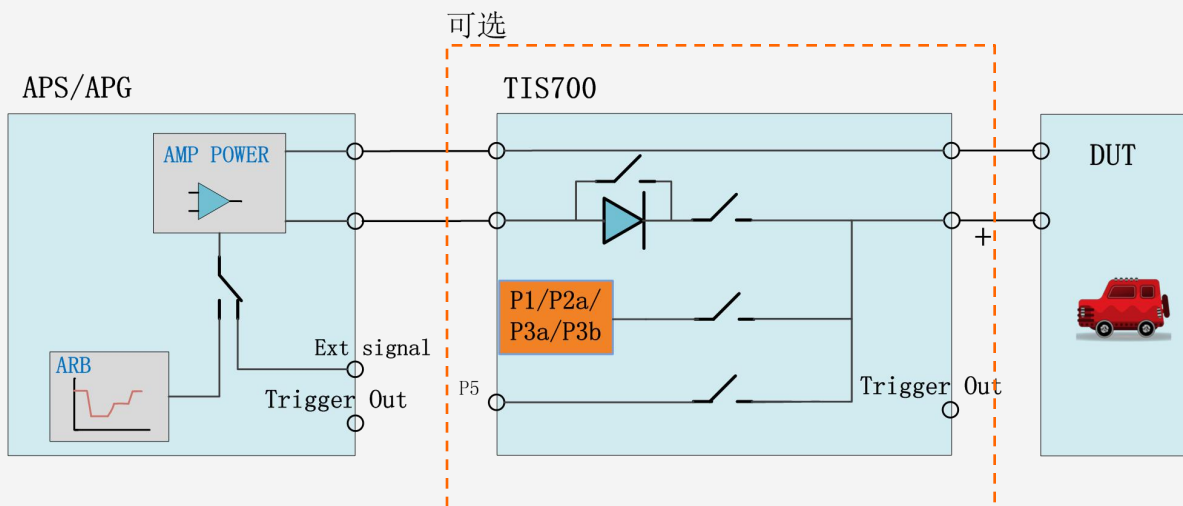


例：启动波形测试建立（Setup）



模拟内燃机马达启动引起的电压降低现象

- 可选择从APS/APG直接输出接DUT或通过TIS700网络输出
- 可选内置波形发生器，或外部波形发生器波形注入，如PAWG100
- 需确定DUT的冲击电流大小，选择相应型号APS/APG产品。



## APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

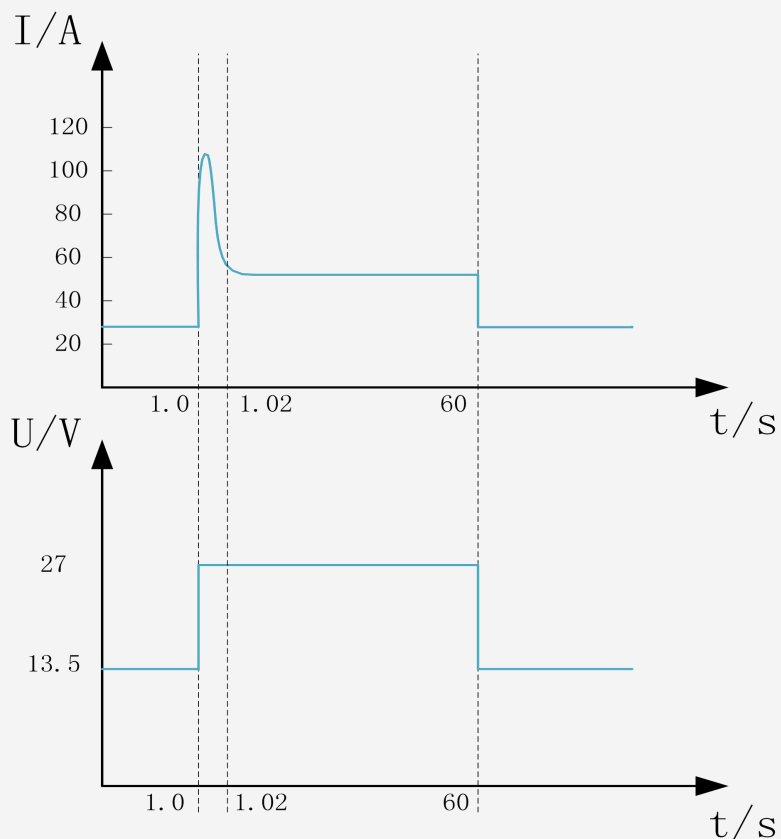
PFS series

VTE 743T1

EDS30V

AutoLab™ software

### 应用案例1：冷却风扇



在做ISO16750过压测试时，电压从13.5V跳变到27V。在额定13.5V电源电压时，电流才24A，跳变到27V时，首先有电流冲击达到110A，脉宽有20ms，后稳定至48A。通常电机或其他感性负载有此特性。带大储能电容的产品，在上电瞬间也会有冲击

如果此产品需要做过压测试，至少要选50A的APS/APG产品，且冲击电流需要>110A。

## APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

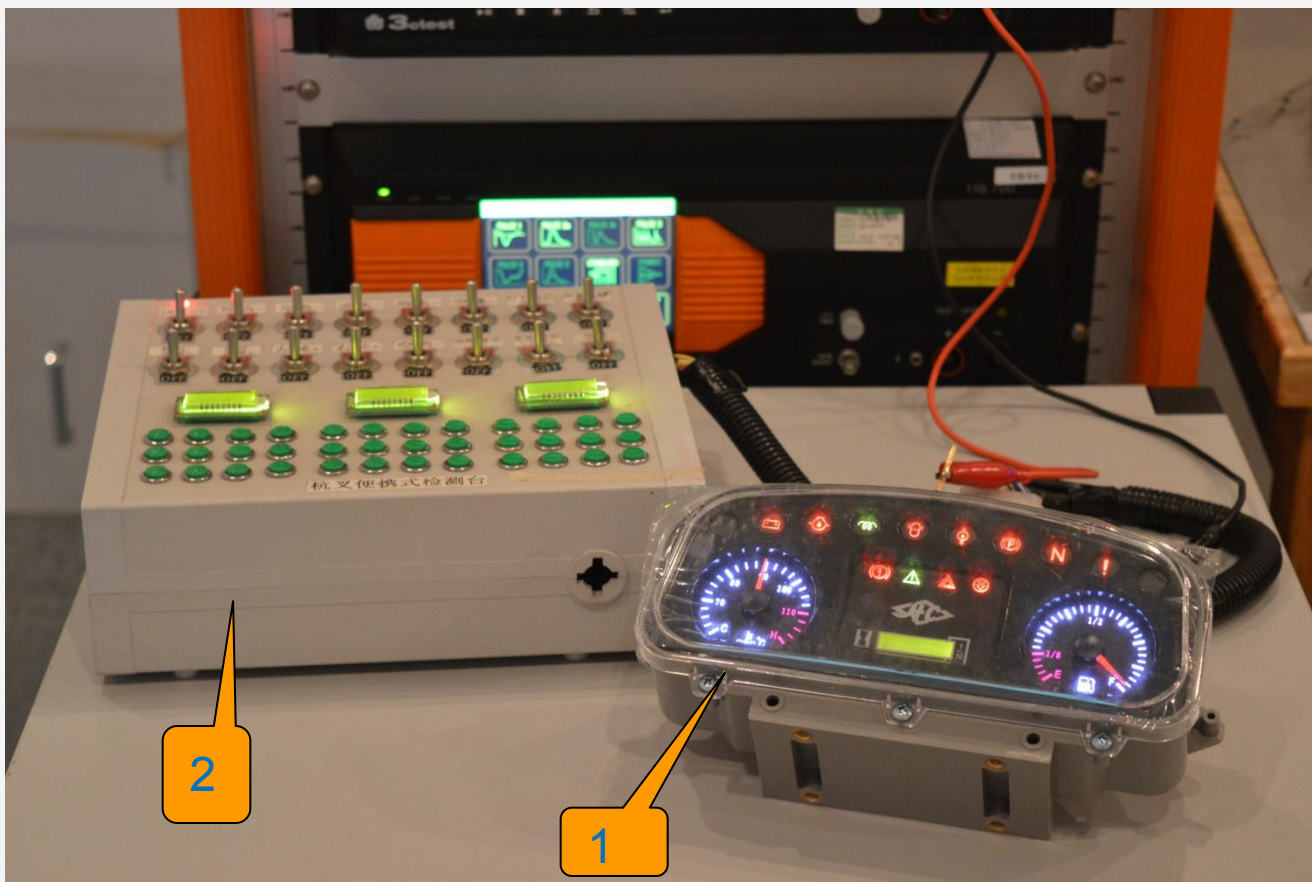
EDS30V

AutoLab™ software



### 应用案例2：仪表盘

当电源受内燃机启动影响降低时，如果仪表设计不良，可能导致仪表断电，并无法再次重启。



1. 车载仪表
2. 仪表数据模拟器（车载其他设备环境发送）

# APS/APG series: environmental conditions of power supply test

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

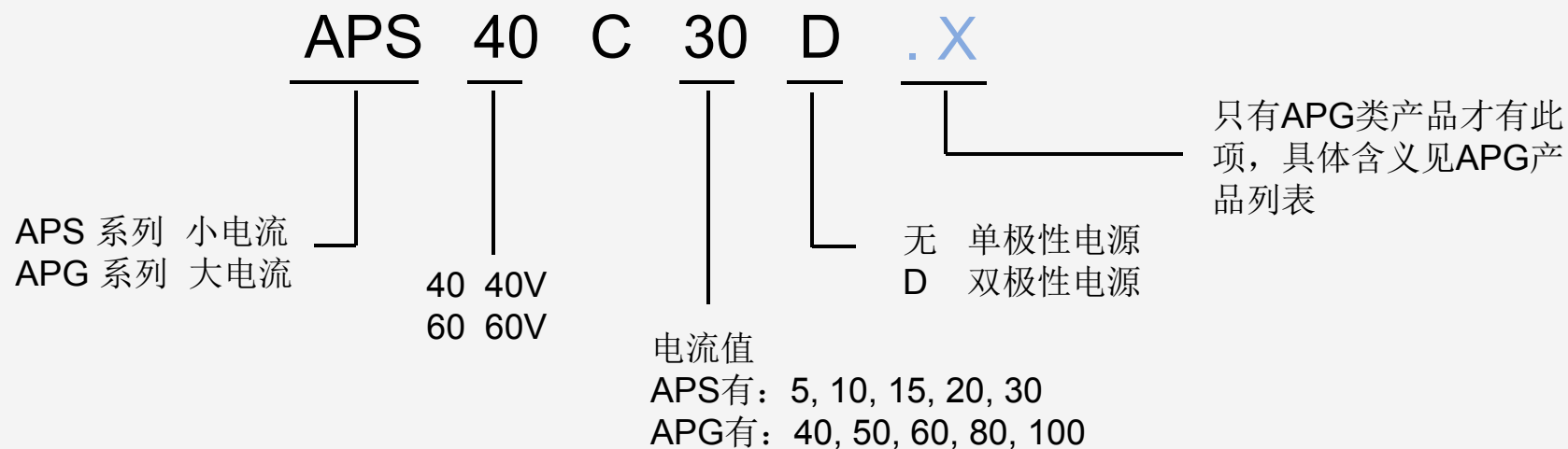
PFS series

VTE 743T1

EDS30V

AutoLabTM software

## APS /APG系列选型



## ■ 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

AutoLab™ software



- ◆ 模拟电源测试类标准中的任意波形。如 ISO16750, LV124 等
- ◆ 同时支持4通道输出，同步时间可调
- ◆ 支持斜波、正弦波、三角波、方波、指数波任意编辑，幅度、偏置、频率动态调整
- ◆ 支持导入 \*.csv 文件，如示波器存储的波形，excel编辑的波形
- ◆  $f_{max} \leq 500\text{kHz}$
- ◆ DA触发率 25MSPS，高触发率能更准确的还原波形细节
- ◆ 可设置任意时刻触发输出信号，利用示波器监测波形细节

# PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

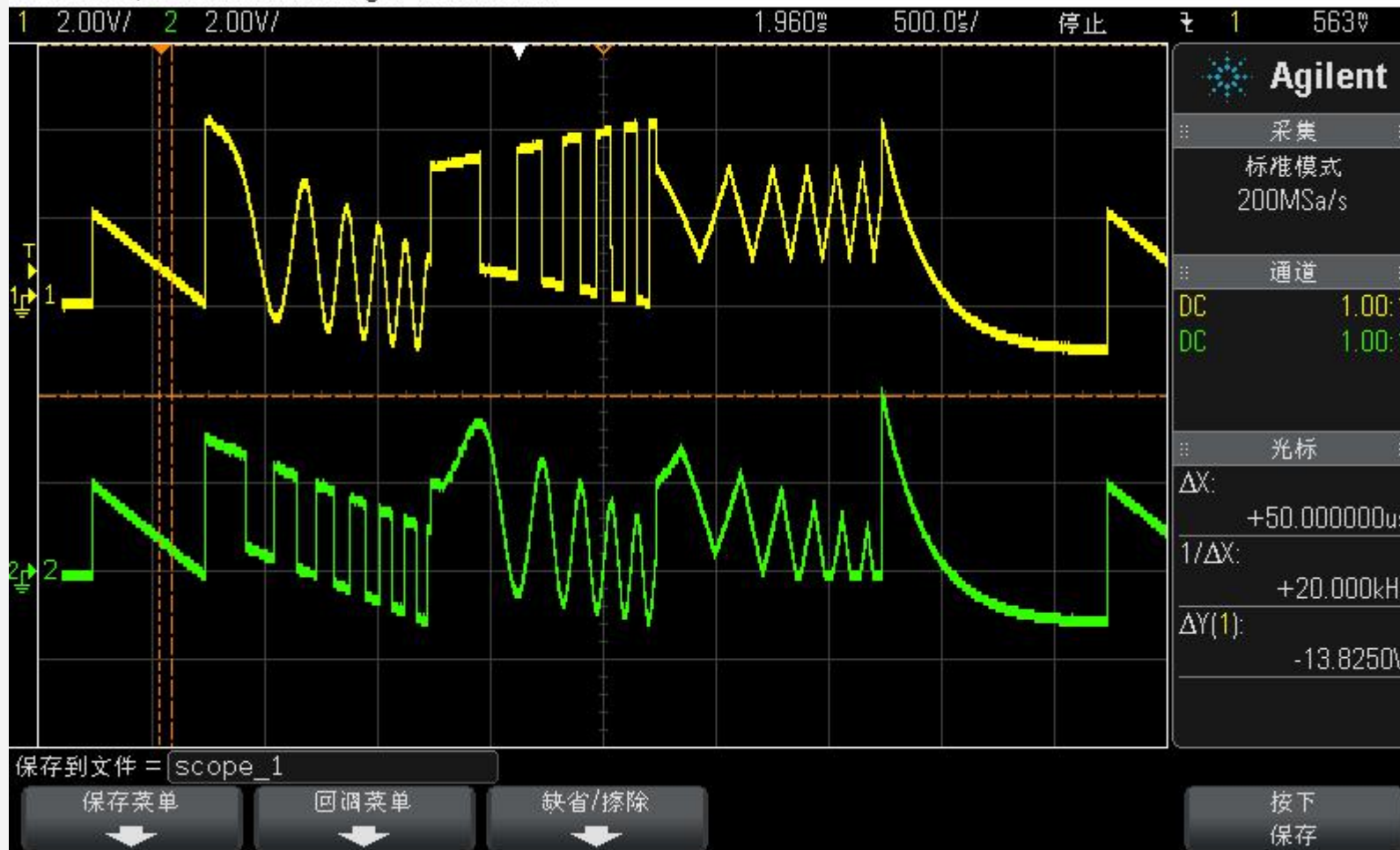
VTE 743T1

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

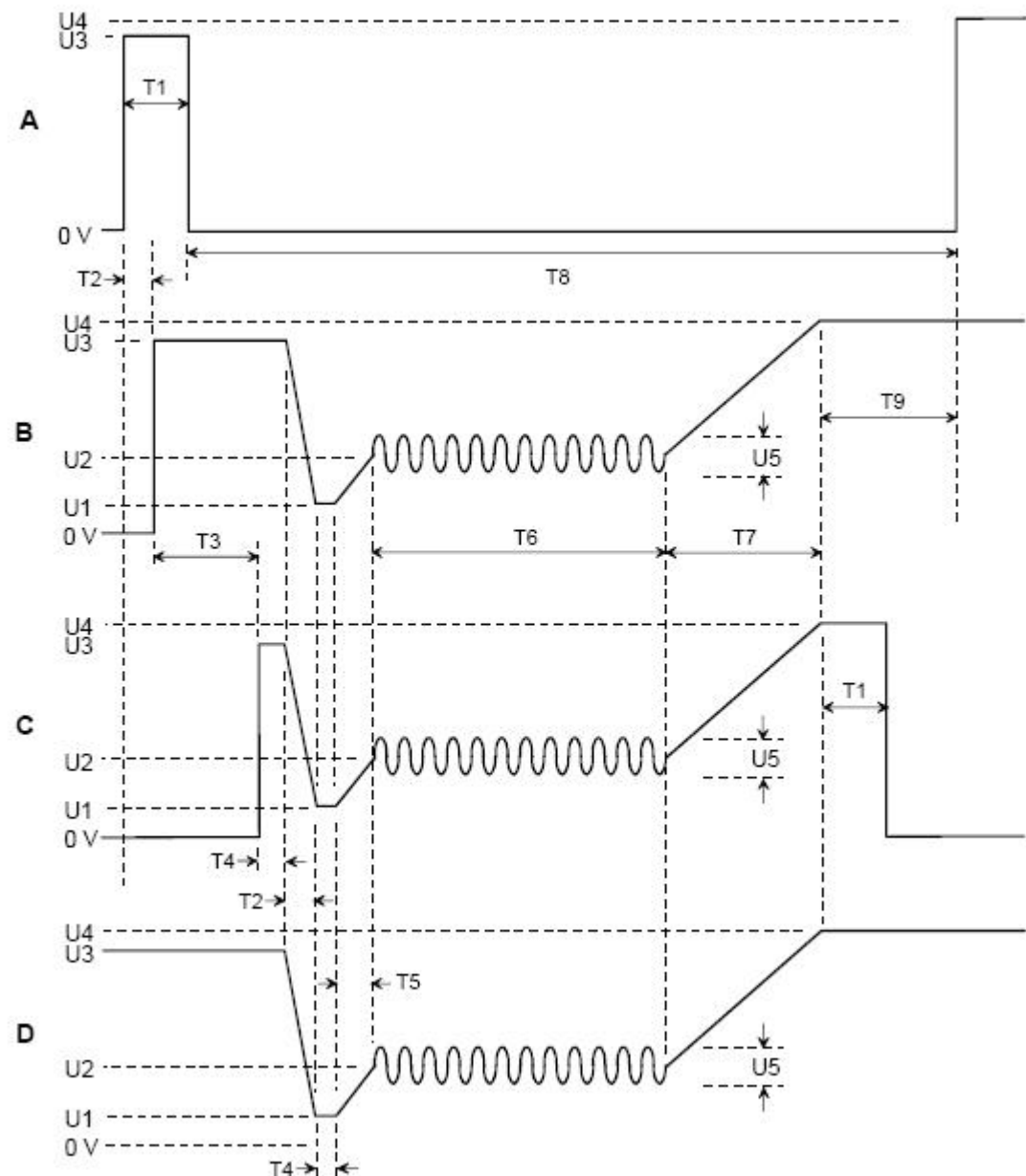
VTE 743T1

EDS30V

AutoLab™ software

例：Ford ES-XW7T-1A278-AC 2003  
标准中CI230 的测试建立（Setup）

- 在Autolab标准库中选择相应标准，或自行编辑需要波形，确认4个通道间同步时间的相互关系
- 功率输出部分需要用到APS/APG
- 可以在主通道（即通道1）波形上任意时刻设置触发点，便于观察波形



# PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

PAWG100 series

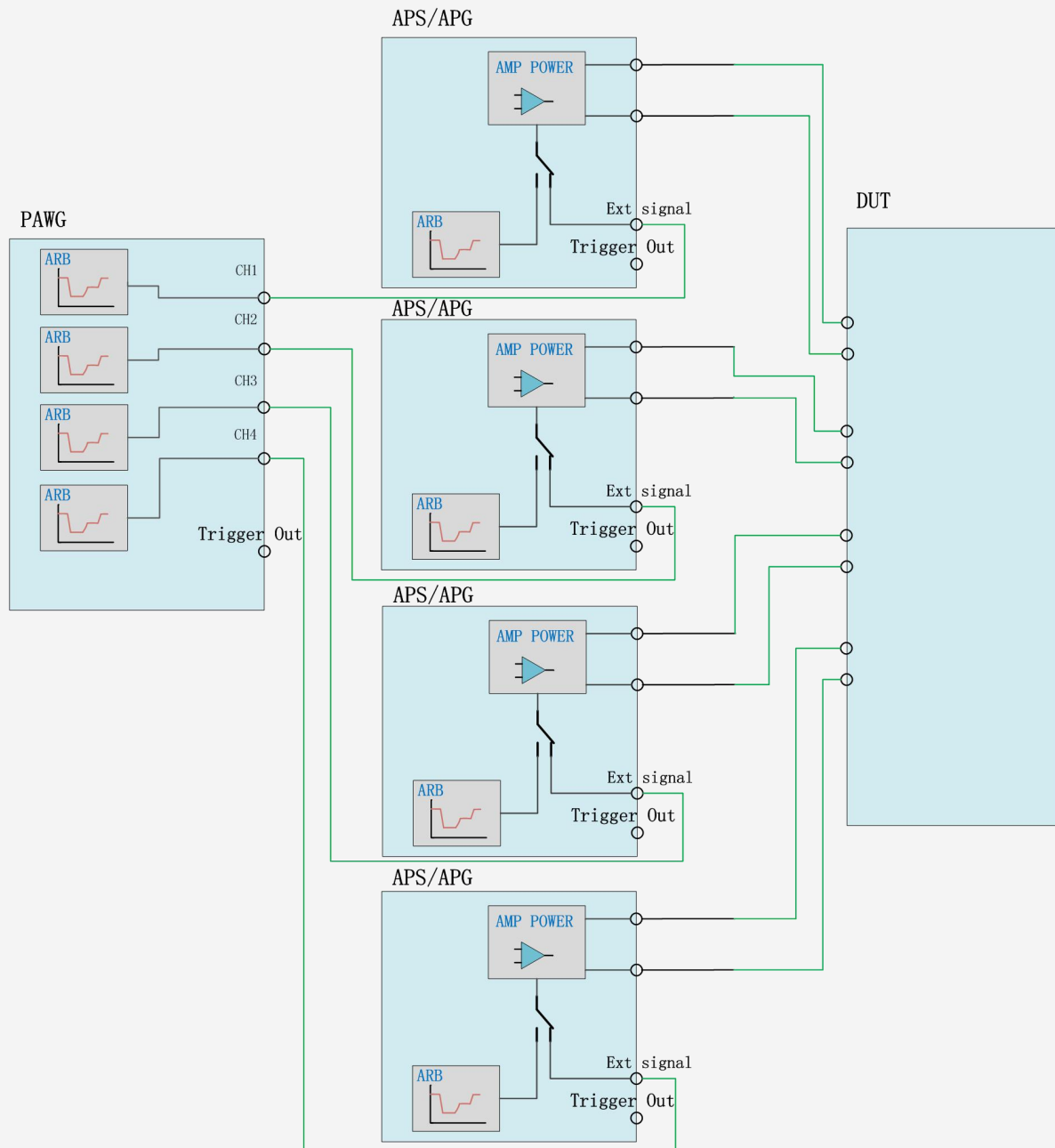
LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software



- 视DUT的不同情况，可能还需要再添加一路辅助电源，或再加一台APS/APG系列仪器
- 输出电流及保护参数，取决于APS/APG系列仪器

## PAWG series arbitrary waveform generator

General description

TIS 700 series

APS series

**PAWG100 series**

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLab™ software

PAWG系列选型

PAWG 100 D



D : 2通道

F : 4通道

**PAWG series arbitrary waveform generator**

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software

|         |                                                |
|---------|------------------------------------------------|
| 通道数     | 1-4通道                                          |
| 同步性能    | 通道间同步精度： 小于1us ,同步时间0.1-100us可调                |
| 基础波类型   | 斜波, 三角波, 正弦波, 方波, 指数波, 克隆波（示波器存储或用户自定义文件 .csv） |
| 幅度、偏置变化 | 静态、线性                                          |
| 频率变化    | 静态、线性、对数（lg）                                   |
| 起始相位    | 0 ～ 359° 步进 1°                                 |
| 整流方式    | 无, 正, 负, 桥式                                    |
| 频率      | 0.01 ～ 500kHz                                  |
| 波形触发率   | 每通道 25MSPS                                     |
| 输出电压范围  | 0 ～ +/- 10V 配合APS/APG输出时，最终取决于APS/APG放大倍数及范围   |
| 上升/下降时间 | ≤100ns @20Vpp                                  |
| 支持编辑片段  | ≤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



- ◆ 模拟类似发动机运转过程中电池断开等抛负载测试，如ISO16750中 load dump
- ◆ 内置60V/30A CDN网络，最高可达200A。
- ◆ 可满足上升沿 $\leq 1\mu\text{s}$ ， $10\mu\text{s} \sim 10\text{ms}$ 可调（特别是日系标准的支持）
- ◆ 支持正负极性波形切换
- ◆ 脉冲持续时间高达 1200ms
- ◆ 内置抛负载抑制波形，如P5b

# LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

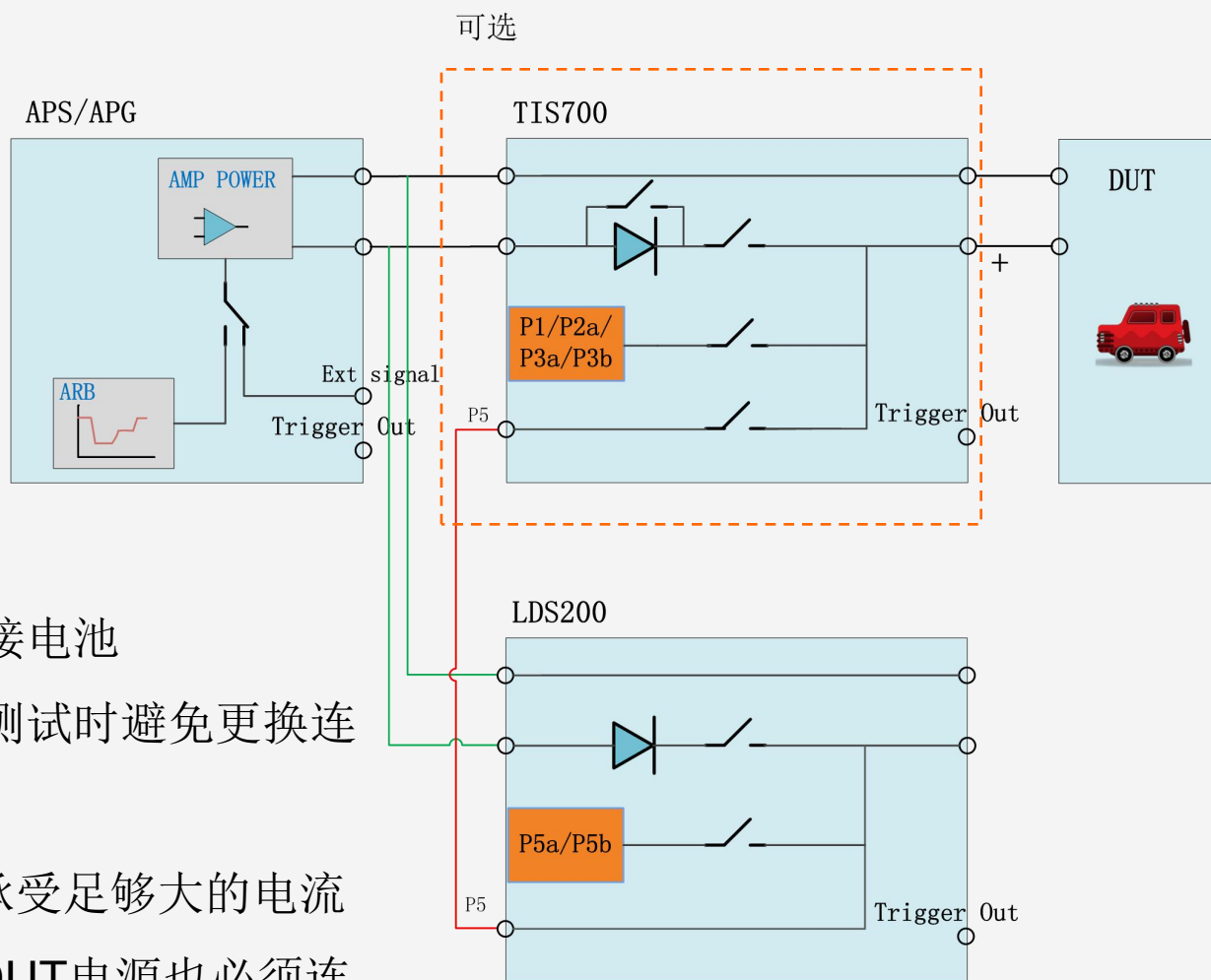
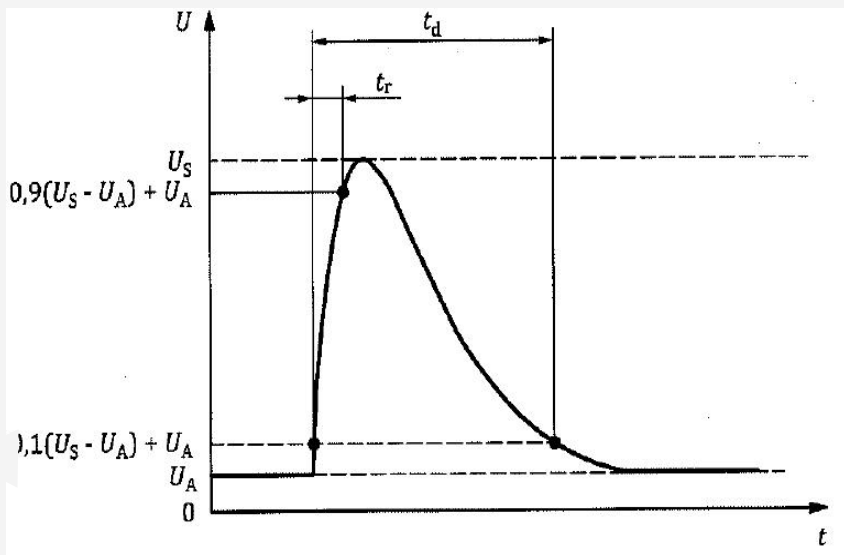
PFS series

VTE 743T1

EDS30V

AutoLab™ software

例：LoadDump测试建立（Setup）



- APS/APG做为电源给DUT供电或外接电池
- 可选使用TIS700的CDN网络输出（测试时避免更换连接线），或使用自己的CDN网络输出
- 选择合适的型号，以使CDN网络能承受足够大的电流
- 即使使用TIS700网络输出，后面板DUT电源也必须连接，因为要测量DUT电压，脉冲波形叠加上去

## LDS 200 series: automotive load dump immunity simulator

General description

TIS 700 series

APS series

PAWG100 series

**LDS200 series**

PFS series

VTE 743T1

EDS30V

AutoLabTM software



### 应用案例1：大灯灯泡



当发电机给蓄电池充电时，电池意外断开，发电机会产生一个高能量脉冲，可能导致车载设备烧毁。

## LDS 200 series: automotive load dump immunity simulator

General description

应用案例2：电子元器件测试

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

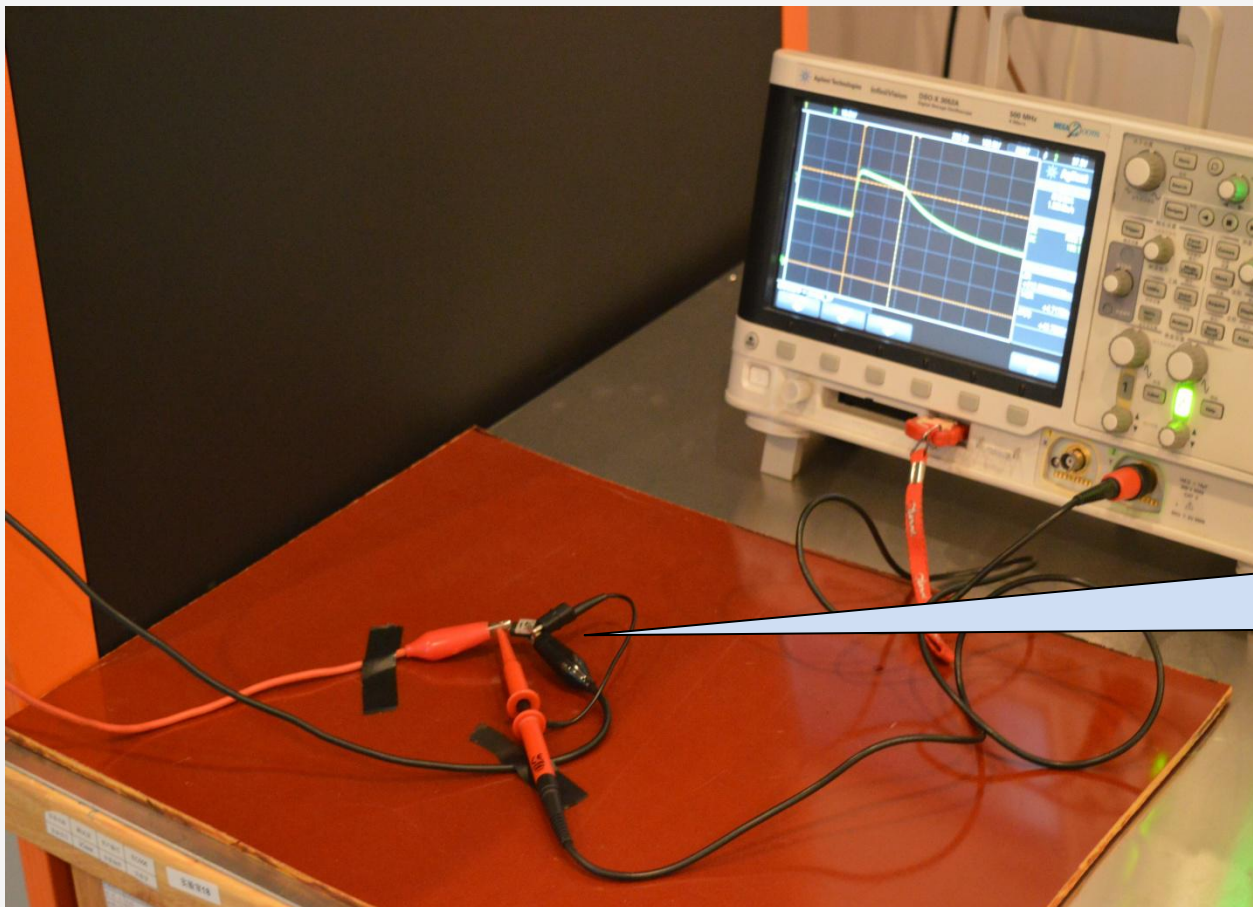
VTE 743T1

EDS30V

AutoLab™ software



TVS器件(瞬态抑制二极管)，广泛用于电子电路设计中的保护元件。主要是元器件厂家供给设备制造公司的原材料



如：GPS，倒车影像等的大多数产品，均会采用此元件抵抗类似P5类脉冲的干扰。



## LDS 200 series: automotive load dump immunity simulator

### LDS20X 系列选型

LDS 200 D N 30

无：ISO7637，ISO16750中  
抛负载类型

上升沿5 ~ 10 ms

D: 包含200中的特性，另外

上升沿  $\leq 1\mu\text{s}$

10 $\mu\text{s}$  ~ 10ms

可切正负极性

无： CDN网络30A

N30: CDN网络30A

N50: CDN网络50A

N100: CDN网络100A

N200: CDN网络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

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VTE 743T1

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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 $\Omega$ , 0.1 $\Omega$ 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



- ◆ 模拟电压暂降和中断测试
- ◆ 内置60V/30A CDN网络，最高可达200A。
- ◆ 可满足上升沿/下降沿  $< 1\mu s$
- ◆ 输出阻抗，高阻/低阻可切换
- ◆ 可使用Autolab软件，支持众多电压暂降和中断标准



# PFS series – automotive power fail simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

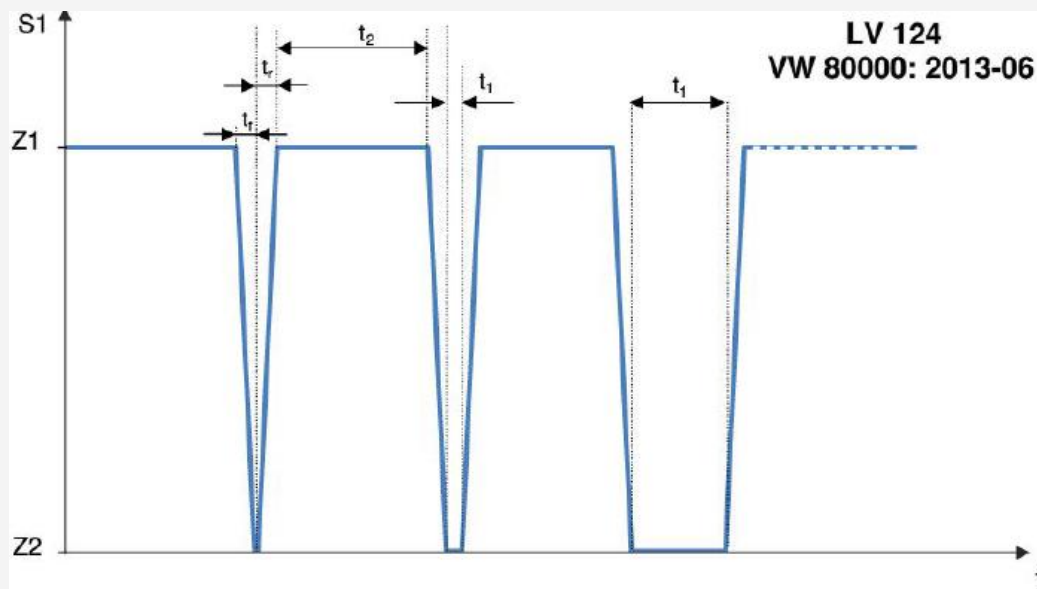
VTE 743T1

EDS30V

AutoLab™ software

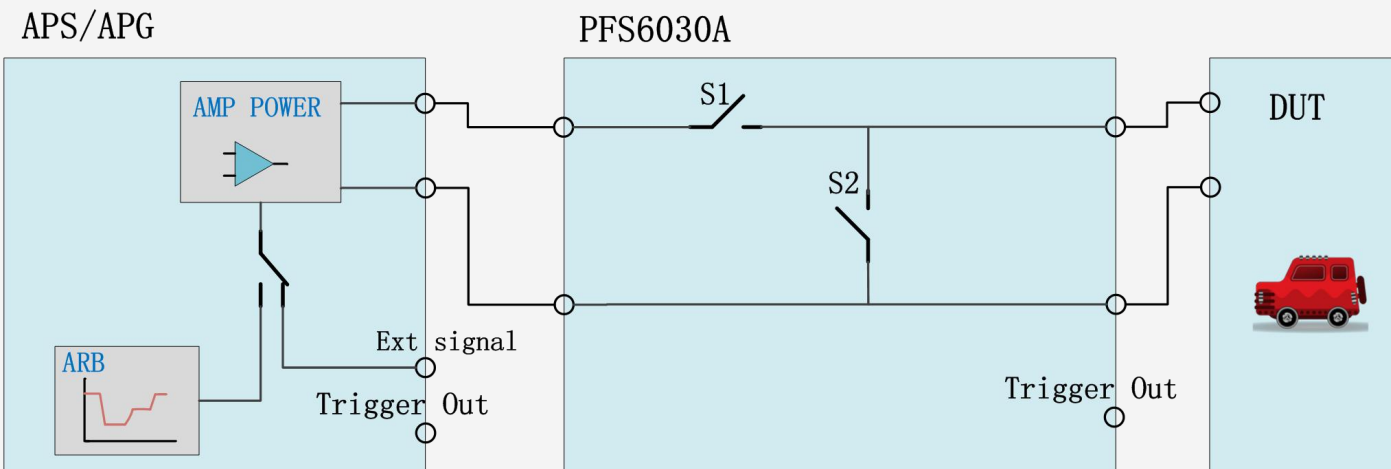


例：LV124 E-10 测试建立（Setup）



◆ 当 $t_1 = 10\mu s$ 时,  $t_r/t_f \leq 0.1 * t_1 = 1\mu s$ ,对上升/下降沿要求很高

◆ 实验前, 用 $1\Omega$ 电阻校波形时, 注意选取功率合适的, 防止过流损坏。需使用无感电阻



## PFS series – automotive power fail simulator

PFS60 series 系列选型

PFS 60 30 A

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

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

**PFS series**

VTE 743T1

EDS30V

AutoLab™ software

# PFS series – automotive power fail simulator

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



| PFS series          |                                                   |
|---------------------|---------------------------------------------------|
| Voltage scope       | 1 - 60 V                                          |
| Rising/falling time | 1ohm,10ohm 纯阻性负载 < 1us<br>高阻 , 1kohm 纯阻性负载 < 10us |
| Impedance (Ri)      | 高阻/低阻(<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

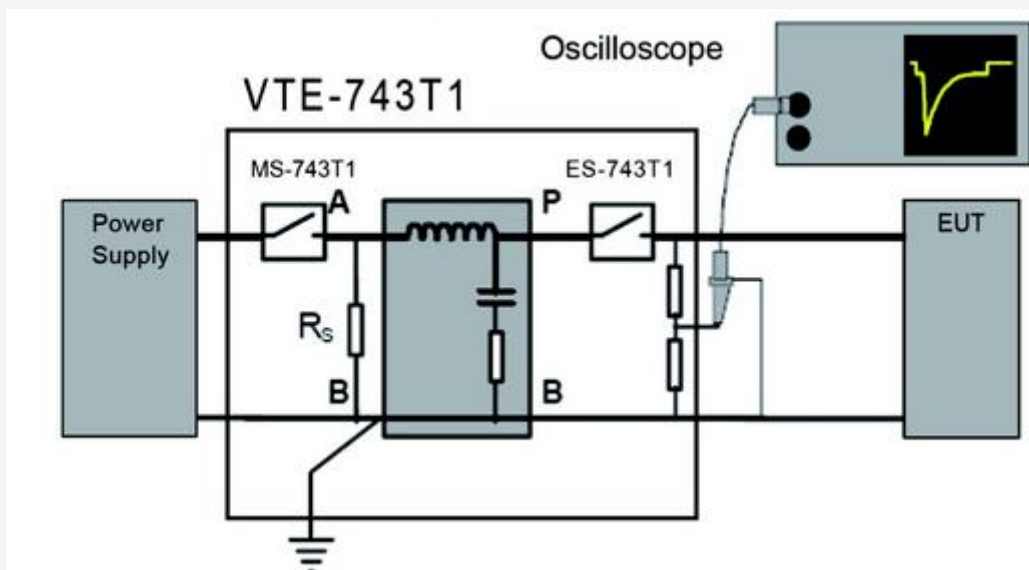
VTE 743T1

EDS30V

AutoLab™ software



- ◆ 模拟DUT电源上任意开通关断电源，测量DUT瞬态发射的波形
- ◆ 最高可测400V。
- ◆ 内置10ohm,20ohm,40ohm,120ohm,可扩展外接任意电阻



# 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  $\Omega$  ; 330pF/2000  $\Omega$  ; 150pF/330  $\Omega$  ; 330pF/330  $\Omega$
- ◆ Polarity: +/-
- ◆ LCD Touch screen operation
- ◆ As per ISO 10605

## AutoLabTM software

General description

TIS 700 series

APS series

PAWG100 series

LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



- ◆ 支持汽车测试系统全部仪器的测试控制
- ◆ 完善的标准库（各国际标准和厂家标准），远远超出仪器内置的标准库
- ◆ 简单易用，系统配置完后，几乎一键完成测试
- ◆ 支持测试数据记录，报告打印
- ◆ 支持用户修改标准另存，方便产品测试改进
- ◆ 支持中英文切换



Windows XP/7/8/10

# 脉冲测试测试界面

快速测试

标准库

设备管理

测试序列

参数设置

波形展示

订制报告

测试控制

AutoLab

File View Test Settings Log Help

Standard Selection:

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

Test: [Pulse 1] (\*)

Pulse parameters

Equipment

Generator

Generator

Line ON/OFF On

General

Us 100 V

Timing

Ri 10  $\Omega$

td 2 ms

t1 0.5 s

t2 200 ms

t3

Pulse graphics

pulse1\_underprogram Time

Waveform graph showing voltage (V) vs time (t) with parameters  $U_s$ ,  $U_{st}$ ,  $t_1$ ,  $t_2$ ,  $t_3$ .

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
- 6.2 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
- 6.6 E-06 Superimposed al
- 6.7 E-07 Slow decrease ar
- 6.7 E-07 Slow decrease ar
- 6.7 E-07 Slow decrease ar

Approximate test time 00:00:00:50

Sequence repetition 100 Count

Ready

None

Message before running

Time elapsed 00:00:00:00

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

40

# 可编辑测试的预展

Genera

TIS 700

APS se

PAWG1

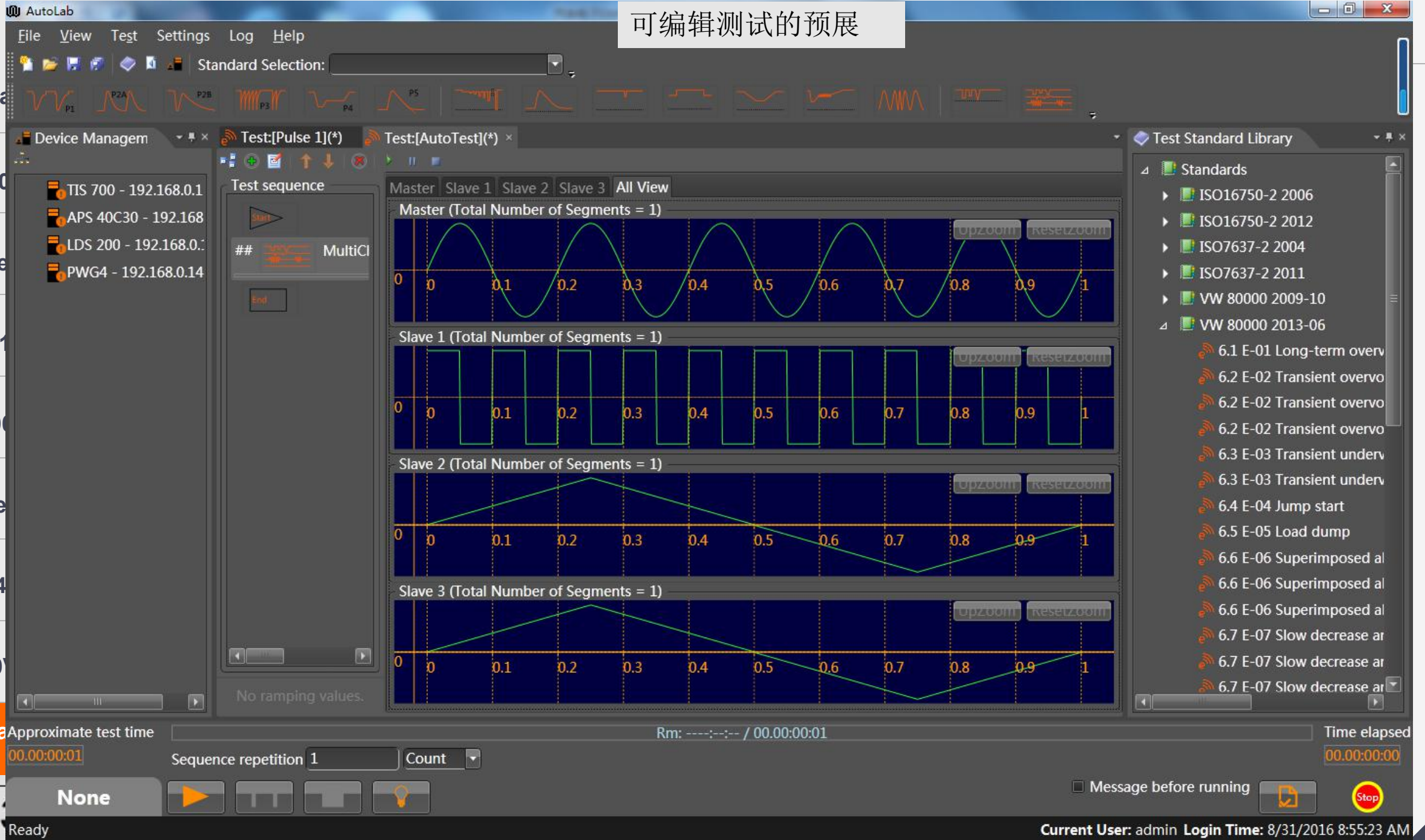
LDS200

PFS se

VTE 74

EDS30

AutoLa



# AutoLabTM software

General description

任意波形的编辑

TIS 700 series

APS series

PAWG100 series

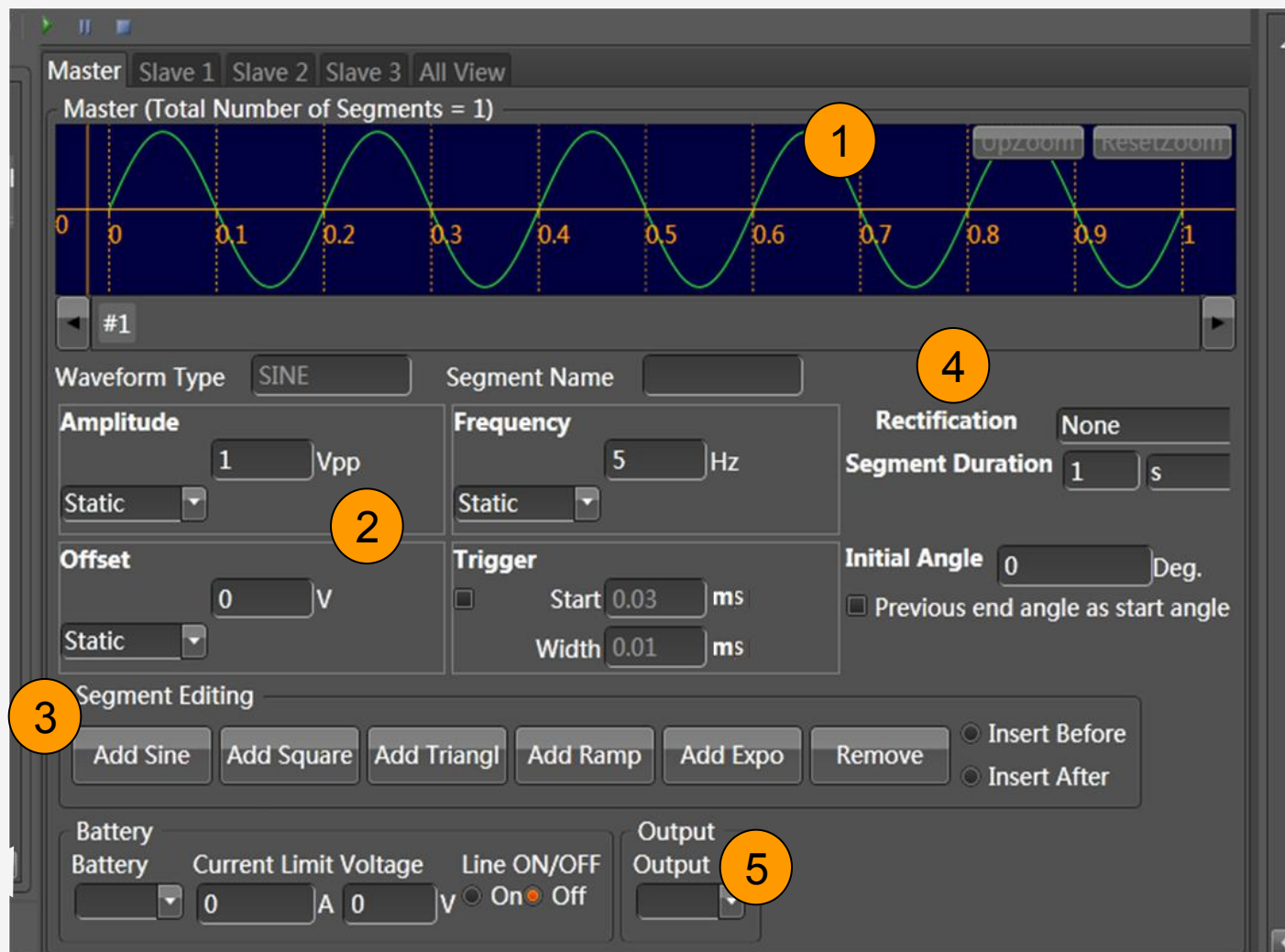
LDS200 series

PFS series

VTE 743T1

EDS30V

AutoLabTM software



- 1.编辑的波形展示区
- 2.波形参数设置
- 3.添加的波形类型
- 4.整流方式，起始角度设置
- 5.DUT常态设置，输出端口是否使用TIS700

## 测试报告

Report configuration...

Company information

Name:

Address:

Phone:

Fax:

Mail:

Template:

☒ Generate report on test completed

支持模板设置  
调用

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 : 2016/09/15

