

# Automotive power voltage variation simulator

# APS series



- As per
- > ISO 7637-2
  - > ISO 16750-2
  - > ISO 11452-8
  - > Many automobile manufacturers test standards

**Description**

APS series can be used as battery supply simulation and DC voltage source. During test in test lab, APS series can replace vehicle battery. Pulse 2b, Pulse 4, sine wave noise and other complicated voltage variation test can be conducted by APS series simulator as per ISO 7637/16750. It can simulate multiple battery supply waveforms as per international standards and multiple automotive manufacture standards. Also, as a powerful DC source, it can supply power for DUT during automotive transient pulse test, which can meet three kinds of supply voltage. APS series can also be used as power amplifier for magnetic field immunity test.

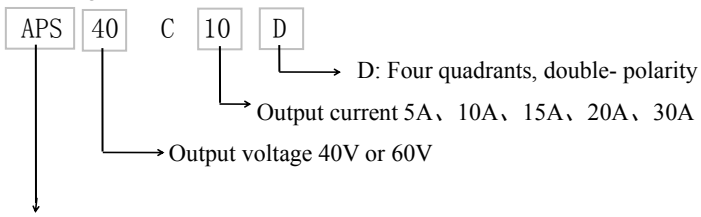
- Features**
- > 5.7 inch color touch screen
  - > Test voltage up to 60V
  - > Test current up to 30A
  - > high impulse current capacity
  - > low output impedance
  - > Powerful DC voltage source
  - > Automatic voltage compensation with external control of simulated input waveform
  - > Quick response, the bandwidth up to 100 kHz
  - > Pulses 4 and 2b as per ISO 7637-2:2004
  - > Voltage variation test as per ISO 16750-2:2006
  - > Pre-programmed test routines to simulate various supply waveforms
  - > To simulate various supply waveforms, e.g. superimposed noise
  - > Ethernet, RJ45, PC control, and test report documentation and print

- Industries**
- > Automotive
  - > Communication
  - > Avionics
  - > Military

General data	
Output voltage	Single polarity output: 0~40V
	Bipolar output: -40V ~40V
Voltage resolution	±0.2V
Output current	-30A ~30A
Analog signal input	BNC
Sense signal input	BNC
Source impedance	<10mΩ
Voltage compensation resolution	±0.1V
Max. compensated voltage	4V
Voltage deviation	< 1V ( resistive load, including impulse current ) , recover to 63% of max. amplitude during 100us
Voltage fluctuation	Ur<0.2V P-P, min. frequency: 400Hz
Rise time	<10us(resistive load)
Sine signal output	Frequency up to 100kHz ( as per Vpp and output current of waveform)
External signal input	0 ~ ±10v
output	DUT supply: high current connector
Serial port	LAN Ethernet RJ45
enlarging scale of external signal	1:10
Supply voltage	AC 110/220V, ±10%, 45-65Hz
Temperature	15 ~ 35 °C
Humidity	45%--75%RH (no condensation)
Dimension	19 inch / 4U

APS series models			
Simulator and power amplifier	High resolution programmable DC source	parameters	size
1、APS (Unipolarity)			
APS 40C05	internal	DC 40V 5A max, 15A continuous 500ms	19"/4U
APS 40C10	internal	DC 40V 10A max, 15A continuous 500ms	19"/4U
APS 40C15	internal	DC 40V 15A max, 15A long time	19"/4U
APS 40C20	DCP 40C20	DC 40V 20A max, 30A continuous 500ms	19"/8U
APS 40C30	DCP 40C30	DC 40V 30A max, 60A continuous 500ms	19"/8U
2、APS (Bipolar)			
APS 40C05D	DCP 40C05D	DC 40V 5A max, 30A continuous 500ms	19"/8U
APS 40C10D	DCP 40C10D	DC 40V 10A max, 30A continuous 500ms	19"/8U
APS 40C15D	DCP 40C15D	DC 40V 15A max, 30A continuous 500ms	19"/8U
APS 40C20D	DCP 40C20D	DC 40V 20A max, 60A continuous 500ms	19"/8U
APS 40C30D	DCP 40C30D	DC 40V 30A max, 60A continuous 500ms	19"/8U
Basic equipment			
Simulator, test cable, power cord, fuse, factory test report, warranty report and user manual			
Optional accessory			
1. PC control software AUTO Lab			
With PC installed WIN XP and WIN7, it can be easily operated to make the measurement, based on the customized test program. It can identify any device for AUTO Lab test with automatic configuration. It can easily generate test reports.			

Naming rules:



APS series can support external input signals, max. response frequency 250kHz, current up to 30A



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