Voltage Drop Simulator - Battery Supply Simulator and DC Voltage Source

APGxx series Datasheet

In Compliance with

> ISO 7637-2
> ISO 16750-2
> BMW 600 13.0 (T1)
> BMW 600 13.0 (T2)
> BMW GS 95002 (2010)
> BMW GS 95003-2
> BMW GS 95024-2-1 2010
> GMW3172 July 2010
>GMW3172 June 2015
>Peugeot B21 7110 July 2008
>Peugeot B21 7110 July 2005
> Ford EMC-CS-2009rev1
> Ford ES-XW7T-1A278-AC Oct 2003
> VW TL82066 2006-11
> VW 80000 2013-06
> Volvo STD 515-0003 2008
> SMTC 3800001 2014
> MBN 10284-4 2011
> MBN 10 284-2 2008
> Mazda MES PW 67600
> JEELY J7110982A 2016
> QFPT2800001 2011
> FIAT 7-Z0441
> FIAT 7-Z0444 April 2008

Introduction

APGxx series can be used as battery supply simulation and DC voltage source. During test in test lab, APGxx series can replace vehicle battery. Pulse 2b, Pulse 4, slow sine wave noise and other complicated voltage variation test can be conducted by APGxx series simulator. It is a cost-effective way to replace APSxx series for slow waveforms or high current condition. It can simulate multiple battery supply waveforms as per international standards and multiple automotive manufacture standards. Also, as a powerful DC source, it can be supply power for DUT during automotive transient pulse test, which can meet 42 V, 24 V and 12 V supply voltage. For different models and test applications, the test voltage is up to 60V and current is up to 300 A.

Features

> 5.7 inch color touch screen
> Test current up to 300 A
> Unipolarity output
> Powerful DC voltage source
> high impulse current capacity
> Pulses 4 and 2b as per ISO 7637-2
> Voltage variation test as per ISO 16750-2
> Pre-programmed test routines to simulate various supply waveforms
> Ethernet, RJ45, PC control, and test report documentation and print
> Test voltage up to 60 V
> Low output impedance
> Bandwidth up to 30 KHz

Application Areas

> Automotive
> Communication
> Aviation
> Military

Technical parameters

Output voltage	0-60 V
Voltage resolution	±0.2 V
Output current	Max.400 A 500 ms
Source impedance	<10m Ω
Voltage deviation	<1 v(resistive load，including impulse current)，recover to 63% of max. amplitude during 100 us
Voltage fluctuation	Ur < 0.2 V pp，min. frequency: 400 Hz
Rise time	< 100 us(resistive load)
Sine signal output	Frequency up to 30 kHz (as per Vpp and output current of waveform)
output	DUT supply: high current connector
Serial port	LAN Ethernet RJ45
Supply voltage*	AC 220V ±10% 45-65 Hz
Auxiliary power supply voltage	AC 380 V*3 ±10%（22U、35U）
* Please indicate when ordering power supply for different areas	
Temperature	15 ℃– 35 ℃
Relative Humidity	35%-85% RH (no condensation)
Software （Optional）	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.

Models selection

Model	Parameters	Size
APG40C40	Rated 40 V、40 A max：60 A 500 ms	19 inch/8U
APG40C60.1	Rated 40 V、60 A max：60 A continuous	19 inch /8U
APG40C60.2	Rated 40 V、60 A max：120 A 500 ms	19 inch /22U
APG40C60.3	Rated 40 V、60 A max：160 A 500 ms	19 inch /22U
The maximum current 400 A can be continuous with the customized voltage 40 V		
APG60C40	Rated 60 V、40 A max：80 A 500ms	19 inch /22U
APG60C60	Rated 60 V、60 A max：80 A 500 ms	19 inch /22U
APG60C80	Rated 60 V、80 A max：150 A 500 ms	19 inch /22U
APG60C100	Rated 60 V、100 A continuous	19 inch /22U
APG60C100.1	Rated 60 V、100 A max：150 A 500 ms	19 inch /22U
APG60C100.2	Rated 60 V、100 A max：200 A 500 ms	19 inch /22U
APG60C200	Rated 60 V、200 A continuous	19 inch /22U
APG60C300	Rated 60 V、300 A continuous	19 inch /35U
The maximum current 400 A can be continuous with the customized voltage 60 V		

Basic equipment

Simulator, test cable, power cord, fuse, factory test report, warranty report and user manual

Naming rules

APG 40 C 40

- 40 → Output voltage 40 V、60 V
- 40 → Output current 40 A、60 A、80 A、100 A、200 A、300 A

APG series are high power voltage failure simulator with current up to 300 A, impulse current 400 A，frequency up to 30 KHz

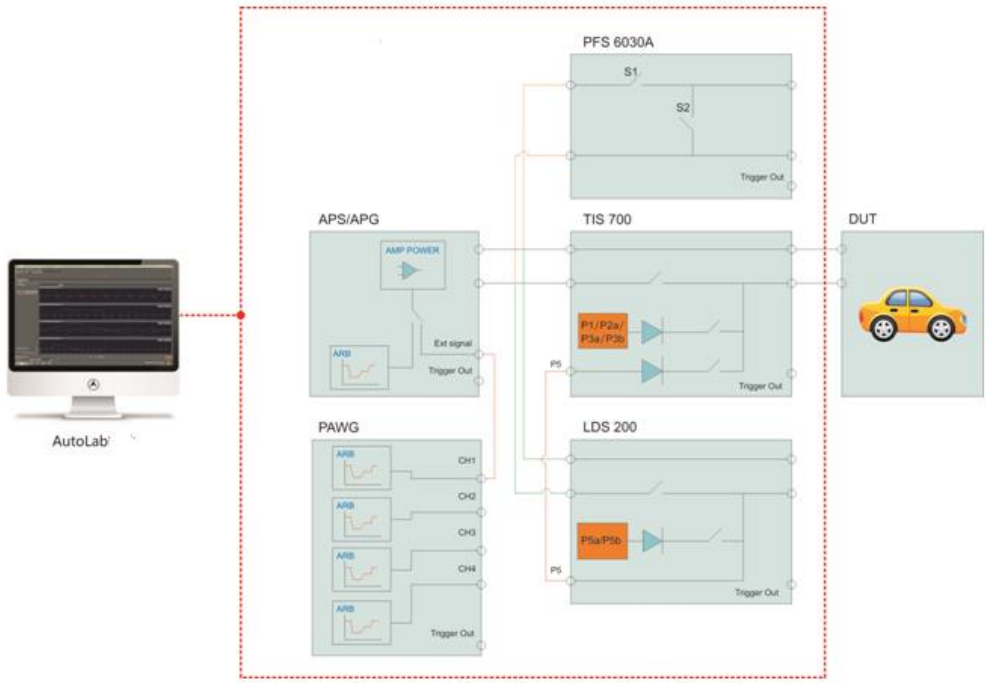
*) There is a large amount of inrush current for some of the test products (eg motor equipment, exhaust fans, wipers, air conditioners, etc.) or in the presence of large capacitive energy storage fittings. This inrush current is 3-10 times of normal current or even greater. If the customer's inrush current is not confirmed, our company's CTM series of current test module can be used to test the working current value to obtain the inrush current, so you can choose a more appropriate APS series of products.

**) APGxx series The output voltage range of the APS is 0 to 60 V and the output current range is 0 to 400 A. The Max output frequency of sinusoidal signal is 30kHz；The instrument power is large enough to meet most of the test requirements

APSxx series The output voltage range of the APS is 0 to 60 V and the output current range is 0 to 30 A. The Max output frequency of sinusoidal signal is 30 kHz；

APSxxD series is a four quadrant power supply. The maximum output voltage of the product is 80 V. The difference between positive and negative voltage output shall not exceed 100 V. The product line meets the 48 V test system. The product output current range is 0 to 30 A.The sinusoidal signal output frequency up to 300 kHz.

The test connection diagram:



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