

APSxxD series

Four Quadrant Battery supply simulator and DC voltage source



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

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
- > Four-quadrant bipolar amplifier
- > Powerful DC voltage source
- > high impulse current capacity
- > Automatic voltage compensation with external control of simulated input waveform
- > Quick response, the bandwidth up to 300 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
- > Military
- > Avionics

General data	
APS 60C10D+DCP 60C10D	
Output voltage	-15 V - +60 V
Output current	0 A - 10 A, continuous
peak current	20 A for 200 ms
frequency range	DC - 150 kHz full signal

APS 60C20D+DCP 60C20D	
Output voltage	-20 V - +80 V
Output current	0 A - 20 A, continuous
peak current	40 A for 200 ms
frequency range	DC - 150 kHz full signal

APS 60C30D+DCP 60C30D	
Output voltage	-15 V - +30 V / +60 V
Output current	0 A - 30 A, continuous
peak current	60 A for 200 ms
frequency range	DC - 150 kHz full signal

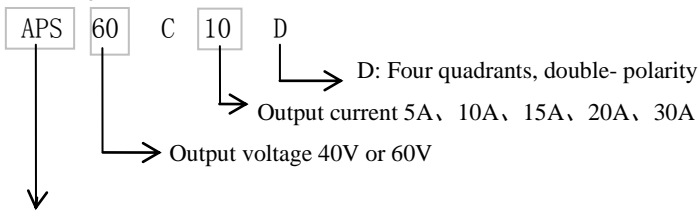
APS 60C30D.1+DCP 60C30D.1	
Output voltage	-20 V - +80 V
Output current	0 A - 30 A, continuous
peak current	60 A for 200 ms
frequency range	DC - 150 kHz full signal

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

General data	
Output voltage	MAX 80V
Voltage resolution	±0.2V
Output current	MAX 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 300kHz (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 220V, ±10%, 45-65Hz
Temperature	15 ~35 °C
size	19"/8U
Weight	40Kg

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.	
2、 Output voltage 40V products can be customized	

Naming rules:



APS series can support external input signals, max. response frequency 300kHz, current up to 30A

*) 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.

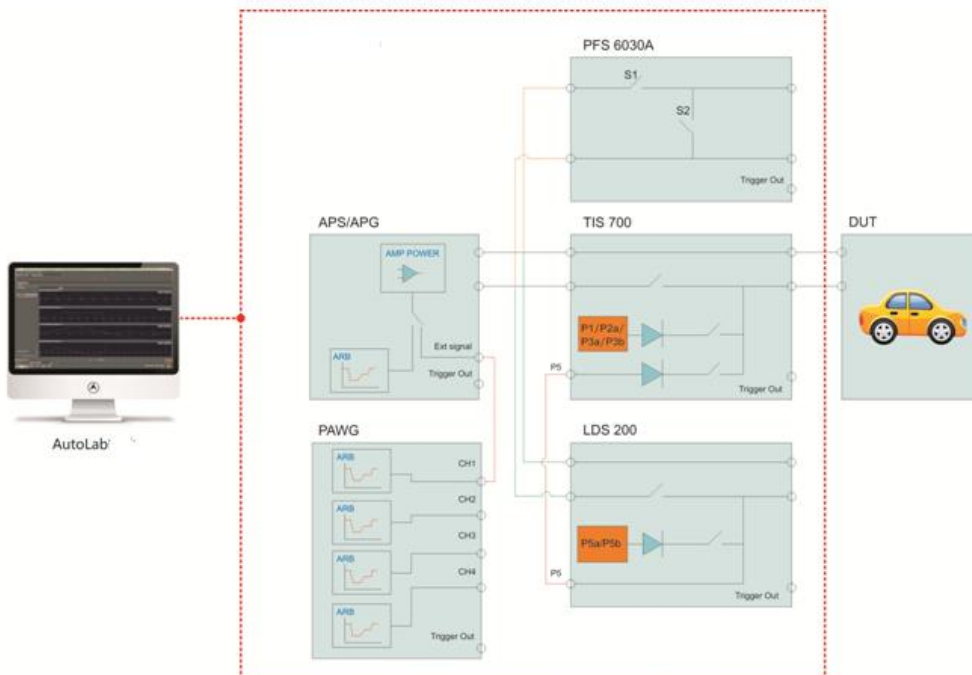
***) APGxx series The output voltage range of the APS is 0 to 60V and the output current range is 0 to 400A.

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

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

The test connection diagram:





SUZHOU 3CTEST ELECTRONIC CO., LTD

Headquarter

Unit 2, Anda Industrial park, Jinshan Rd, SND, Suzhou,
215011, China
Tel: +86 -512 -68413700/3800/3900
Fax: +86 -512 -68079795
http://www.3ctest.cn
Email: info@3ctest.cn

BEIJING OFFICE

Room D 206, D block, Keshi Building, No.28, Shangdixinx
Road, Haidian District, Beijing, China
Tel: +86 -010 -82899984/82899948
Fax: +86 -010 -82899943

CHENGDU OFFICE

Room 1501, Unit 3, Ideal Centre, No.38 Tianyi Street, SND,
6100085, Chengdu, China
Tel: +86 -028 -85327800
Fax: +86 -028 -85311400

SHENZHEN OFFICE

Room 805, Huawen Building, Xili Chaguang Road, Nanshan
District, Shenzhen, China.
Tel: +86 -755 -86626625/86344313
Fax: +86 -755 -26966255

Xi'an Office

Add.: Room 2204, Visa Yinghai Building, Green land Central
Plaza, Jinye Road, Crossig of Zhangbasan Road, High-tech
district, Xi'an city, China.
Tel: +86 -029 -68985077 /68985700
Fax: +86 -029 -68717677



TAIWAN OFFICE

RICHTEC INSTRUMENTS CO., LTD
6F -5, No.130, Ln.235, Baoqiao Rd, Xindian District, New
Taipei City, 23145, Taiwan
Tel: +886 -2 -89121185 Fax: +886 -2 -89121812
Email: rich.tec@msa.hinet.net
http://www.richtec.com.tw



TESTEK Co.,LTD

Address: 601Ho, SungwoonKoa, 141 Hyeonam-ro,
Suji-Gu, Yongin-Si, Gyeonggi-Do, 448-808
Tel: 070-4099-2072/H.P : 010-6500-6648
Email: woo@testek.co.kr
http://www.testek.co.kr, www.3ctest.co.kr



Quantel Pte Ltd

Address: 46 Lorong 17 Geylang #05-02
Enterprise Industrial Building
Singapore 388568
Tel: +65 6745 3200
Email: info@quantel-global.com
https://www.quantel-global.com



European Agency

Europe: AR Europe
Yvonne McGlinchey
ymcglinchey@ARWorld.US
+353 61 504300
Address: First Floor Ashling Building, National Technology
Park, Limerick, Ireland