



Advanced Test Equipment Rentals
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Specification



VDS 200B Voltage Drop Simulator

Testing of electronic modules in 12V/24V or 42V supply systems. The VDS 200B is a low frequency amplifier. It simulates the battery power supply of a vehicle and complex power supply distortions in the power range up to 12,000W. A lot of different waveforms are integrated as standard such as pulse 2b and pulse 4 required in ISO 7637.

Controlled by the AutoWave generator the VDS 200B series can be used for the generation of most complex manufacturer and user specific waveforms.

The VDS 200B can be used as an individual instrument or in combination with all other generators of the series 200.

- ISO 7637
- ISO 16750-2
- SAE J1113
- Manufacturer specification as GM, Ford, Chrysler, Mercedes BMW, VW, PSA, Renault, Fiat, etc.



VDS 200B

VDS 200B model configuration		Output	
VDS 200B0	Voltage Drop Simulator 60V/ 10A	DUT Supply +/-	Safety laboratory and high current plugs
VDS 200B	Voltage Drop Simulator 60V/ 15A	Aux IN +/-	To connect an external dc supply for dips
VDS 200B1	Voltage Drop Simulator 60V/ 30A	Analog control input	0-10V / 10kΩ / 0-50kHz
VDS 200B2	Voltage Drop Simulator 60V/ 50A	External trigger	5-15V TTL; BNC connector
VDS 200B3	Voltage Drop Simulator 60V/ 100A	CRO Trigger	5V TTL-signal for oscilloscope
VDS 200B4	Voltage Drop Simulator 60V/ 150A		
VDS 200B5	Voltage Drop Simulator 60V/ 200A		
Common technical data		Test Routines for arbitrary waves	
Source impedance	Zi = < 10mΩ	DC source	Max. 60V; current depending on VDS 200B model
Voltage deviation	< 1V at any load (including inrush current) recovering 63% of its maximum excursion within 100us	Functions	1. Sine Wave 2. Jump Start 3. Extern 4. GM 9105P Pulse 4 5. Drop and Jump pulse
Ripple voltage	Ur < 0.2Vp-p, frequency min. 400Hz	Standard Test Routines	1. ISO 7637 2. ISO 16750-2 3. Jaso Test 1
Bandwidth	Vpp max 16V up to 25kHz Vpp max 6V up to 50kHz	Service	Service, Setup, Self test
Technical data VDS 200B0		Interface	
Output voltage	0V – 60V	Serial interface	RS 232, baud rate 1200 - 19200
Output current continuous	0A – 10A	Parallel interface	IEEE 488, address 1 - 30
Output current peak	15A	Remote control	To connect external signal generators 0-10V / 10kΩ / 0-50kHz
Technical data VDS 200B		General data	
Output voltage	0V – 60V	Dimensions, weight	19" / 6HU, app. 49kg for VDS 200B0/B 19" / 9HU, app. 76kg for VDS 200B1 19" / 12HU, app. 114kg for VDS 200B2 19" / 16HU, app. 170kg for VDS 200B3 19" / 25HU, app. 400kg for VDS 200B4 19" / 34HU, app. 450kg for VDS 200B5
Output current continuous	0A – 15A	Supply voltage	VDS 200B0 115/230V +10/-15% VDS 200B 115/230V +10/-15% VDS 200B1 230V +10/-15%
Output current peak	15A	VDS 200B1 208V (US version) VDS 200B2 3x440V VDS 200B2 3x208V (US version) VDS 200B3/B4/B5 3x440V VDS 200B3/B4/B5 3x480V (US version)	
Technical data VDS 200B1		Fuses	Depending on VDS 200B model
Output voltage	0V – 60V	Options	
Output current continuous	0A – 30A	AutoWave	Arbitrary generator for more complex test requirements
Output current peak	70A for max 500ms	CNA 200B2	Central coupling matrix, 60V/50A
Technical data VDS 200B2		CNA 200B3	Central coupling matrix, 60V/100A
Output voltage	0V – 60V	CNA 200B4	Central coupling matrix, 60V/150A
Output current continuous	0A – 50A	CNA 200B5	Central coupling matrix, 60V/200A
Output current peak	100A for max 500ms	ISMISO	Software to control the test, including standard library, test report facility and data conversion generator
Technical data VDS 200B3			
Output voltage	0V – 60V		
Output current continuous	0A – 100A		
Output current peak	150A for max 500ms		
Technical data VDS 200B4			
Output voltage	0V – 60V		
Output current continuous	0A – 150		
Output current peak	150A		
Technical data VDS 200B5			
Output voltage	0V – 60V		
Output current continuous	0A – 200A		
Output current peak	200A		
Trigger		Technical data subject to change without notice	
Automatic	Automatic release of the events		
Manual	Manual release of a single pulse		
External	External release of a single pulse		