





DSR 400 Series

Dropout, Surge, Ripple Simulator and AC/DC Voltage Source

- Complete single-box solution for DO 160 Section 16 (115V, 14VDC, 28VDC) and MIL STD 704
- Includes library of 3000+ pre-entered Automotive and Aviation Standards' test routines
- Operate as a free-standing system using the included monitor, keyboard and mouse, or control via LAN
- Very easy to modify existing tests or build new test sequences
- Can function as a controller or node in a larger test system via built-in LAN and GPIO controls
- Models with 80A or 160A continuous output current available

Key Performance Capabilities:

4-Quadrant -- Can source and sink current ±400V -- Supply for 12V - 48V DC systems and 115V - 240V AC systems 50 kHz Sine -- DC ripple tests for many standards 3mΩ DC source impedance -- better than ISO 7637-2 requirements Supports ground reference and supply offset testing required for ISO 16750-2 Sect. 4.8

and other similar standards

AE Techron's DSR 400 Series systems provide complete, single-box solutions for immunity testing. This includes a simple-to-use yet powerful standards waveform generator, an industry-standard arbitrary waveform generator, plus an industry-leading power supply technology. They come with an extensive library of tests for many automotive and aviation standards.

ER

Both models of the DSR 400 Series are 4-quadrant, allowing them to source and sink current. The DSR Series has power in reserve; each model provides continuous DC power as rated, and is able to provide 5X rated power for in-rush testing up to 200 ms, as is required in DO 160 Section 16.

ES

Pre-entered tests for the following standards:

Industry Standards

ANSI ASAE EP455 (Feb03) IEC 6100-4-16 IEC 6100-4-19 ISO 7637-2 (2014) (E) ISO 16750-2 (2023) ISO 21780:2020 ISO 21848 JASO D 001-94 (1994-03-31) MIL STD 461G MIL STD 704F SAE J1113-2 JUL2004 SAE J1113-11-202303 MAR2023 SAE J2139-201412 DEC2014 SAE J2628-201806 JUN2018

Manufacturer Specific Standards

Airbus ABD0100.1.8 Issue E Airbus ABD0100.1.8.1 Issue C Audi I EE-32 (2006-06) BMW GS 95003-2 (2010-01) BMW GS 95024-2-1 (2010-01) BMW GS 95024-2-2 (2011-01) Boeing-D6-16050-5-C Boeing-D6-36440E Case New Holland ENS0310 (12-2-2010) Chrysler CS-11809 (2009-05-29) Chrysler CS-11979 (2010-04-13) Claas CN 05 0215 (2004-12) Cummins 14269 (06201-028) Cummins 14387 (102020-119) DAF BSL-003 (1998-12) DAF BSL-006 (2009-04) Daimler Chrysler DC-10842 (2003-12) Daimler Chrysler PF-9326 Change D D0160G Fiat 9-90110 Issue 13 (2007-03) Ford CS-2009.1 Ford FMC1278 General Motors GMW3172_H (July 2010) General Motors GMW3172 |

Harley-Davidson EG-812-22613 Honda 30AA Honda 7794Z-SAAA-000 (28.12.2004) Hyundai ES 39110-00 (2005-08) Hyundai ES 95400-10 (2007-11-14) Hyundai ES 96100-02 (2006-11-16) JLR-EMC-CS v1 Amendment 4 (Nov 2013) Mazda MES PW67600 (1995-07) MIL STD 461G MIL-HDBK-704-8 Mitsubishi ES-X82010 Rev Q (2007-01) Mitsubishi ES X82115 Rev C (2009-03) Nissan 28400NDS02 Rev 3 (1999-07) Nissan 28400NDS03 Rev 3 (2005-08) Nissan 28401NDS02 Rev 4 (2008-08) Toyota TSC70212G (2007-06) Volkswagen VW 80101 (2009-03) Volkswagen VW 80000 (2009-10) Volkswagon VW TL 820 66

DSR 400-80

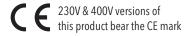
Voltage Output Range: -400V to +400V Max Output Current: 0A to 80A continuous Peak Current: 150A for 200 ms Bandwidth (-3dB): DC to 50 kHz Source Impedance: $3 m\Omega + 3 \mu$ H Supply Voltage: Single-phase 120V ±10%, 30A, 50/60 Hz; 230V/240V ±10%, 30A version available Dimensions (HxWxD): 34.55 x 22.22 x 30.29 inches (87.76 x 56.44 x 76.94 cm) Weight: Approximately 225 lbs. (102 kg)

DSR 400-160

Voltage Output Range: -400V to +400V Output Current: 0A to 160A continuous Peak Current: 300A for 200 ms Bandwidth (-3dB): DC to 50 kHz Source Impedance: $3 m\Omega + 3 \mu$ H Supply Voltage: 3-phase 208V ±10%, 30A, 50/60 Hz; 400V ±10%, 30A version available Dimensions (HxWxD): 48.55 x 22.22 x 30.29 inches (123.32 x 56.44 x 76.94 cm) Weight: Approximately 325 lbs. (147 kg)

Common Data (all models)

Operation: 4-quadrant, bi-polar operation Output Rise Time: <30 µS Remote Control: GPIO, LAN Cooling: Internal forced-air fans Protection: Over/under voltage, over current, over temperature Trigger: Automatic repeat, manual trigger, external trigger via GPIO or LAN Input, Signal In: BNC connector; LAN: Ethernet connector Output, DUT Supply +/-: High-current connectors; Signal Output: BNC connector; LAN: Ethernet connector Waveforms: Sine wave sweep, ripple (cranking), DC source, triangle wave, square wave, sawtooth wave Control Functions: Trigger, fixed loop, variable loop, template playback, GPIO output, LAN output Operating Environment, Temperature: 10°C to 50°C (50°F to 122°F), Maximum Output Power de-rated above 30°C (86°F). Humidity: 70% or less, non-condensing Atmospheric Pressure: 86 kPa (860 mbar) to 106 kPa (1,060 mbar)



AE Techron Sales Representative

Information subject to change.