

- ✓ **Reliability**
- ✓ **Repeatability**
- ✓ **Performance**
- ✓ **Value**

- Test & Measuring Instruments
- Power Supplies
- EMI & EMC Solutions
- Electrical Test Instruments
- Automated Test Equipment



2025-26
Compact Catalogue

DSOs / MSOs

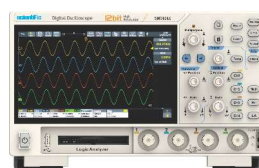


New

DSO: SMO502ED+/1002ED+
Upto 100MHz Dual Channel
RTS 1GSa/s, Memory 40M
PC Interfacing Software



DSO: SMO502/1002/1104U
Upto 100MHz, 2/4 Channel
RTS Upto 1GSa/s, Memory 2/14Mpts
PC Interfacing Software



New

DSO/MSO: SMO800X/900X Series
Upto 250 MHz, 2/4 Channels
RTS upto 2GSa/s, Memory 100Mpts
Vertical Resolution : 12bit



DSO/MSO: SMO1000E Series
Upto 200MHz, 2/4 Channels
RTS 1GSa/s, Memory 14Mpts
Serial Decode/Trigger Function



DSO/MSO : SMO2000X-E Series
Upto 350MHz, 2 Channels
RTS 2GSa/s, Memory 28Mpts
16 Logic Channels, Bode plot



New

DSO/MSO : SMO3000X Series
Upto 500MHz, 2/4 Channels
RTS 2.5GSa/s, Memory 100Mpts
Vertical Resolution : 12bit



DSO/MSO: SMO5000X Series
Upto 1GHz, 4 Channels
RTS 5GSa/s, Memory 250Mpts
PC Interfacing Software



Component Tester
Compatible with all DSOs / MSOs
Pattern : R, C, D, OC, SC, FET, ZD

Waveform / Pulse & Delay Generators



Function Generators
Upto 5MHz, Upto 20Vpp
Internal Sweep Generator
Built in Frequency Counter



Arbitrary Waveform Generators
Upto 500MHz, 1/ 2 Channels
Sampling Rate upto 2.4GSa/s
16 bit Vertical Resolution



Digital Delay Pulse Generators
2, 4 or 8 Independent Channels
250ps Resolution
Accuracy: 1 ns +.0001 x setpoint
Memory: 12 Storage Slots



RF Signal Generators
Upto 3.2GHz
Sampling Rate upto 2.4GSa/s
Internal IQ Modulation
Output from -110dBm to +13dBm

Digital Multimeters



Bench Top 5 1/2 & 6 1/2 DMM
Programmable True RMS
240,000 & 2,200,000 Counts
PC Interfacing Software



New

SME1454
6 1/2 Digital Multi Meter
Maximum upto 160 Channels
5 slot main frame
Temperature acquisition supports



New

SME1300 Series
No. of Channels 1/3/4
Voltage : 5V~600V,
Current : 5mA~40A,
AC, DC, Power, Harmonic Analysis



Hand Held / Bench Top LCR Meter
L, C, R, |Z|, DCR, D, Q, θ , ESR
Accuracy : 0.1% / 0.2%
Test Freq : Upto 25kHz

LCR Meters



Precision LCR Meters
L, C, R, |Z|, Y, X, B, G, D, Q, θ , DCR
Accuracy : 0.01%
Test freq : Upto 2MHz



High Precision LCR Meters
Cp/Cs, Lp/Ls, Rp/Rs, Z, Y, R, X, G, B, D
Accuracy : 0.01%
Test freq : Upto 2MHz



High Frequency LCR Meters
Cp/Cs, Lp/Ls, Rp/Rs, Z, Y, R, X, G, B, D
Accuracy : 0.05%
Test freq : Upto 8.5MHz

DC BIAS Current Sources



New

SM6027B
Output Current : 0.1A~400A
Test freq : Upto 2MHz
Time : 10mS~3600S

Spectrum /Vector Network Analyzers & EMC Precompliance Setup



Real Time Spectrum Analyzers
9kHz to 7.5GHz
-165dBm DANL, Min. 1Hz RBW
EMC Pre-compliance



Spectrum & Vector Network Analyzers
9kHz to 7.5GHz
-165dBm DANL
EMC Pre-compliance



LISN's
Upto 1500A,
9kHz to 30MHz/150MHz
CISPR16 / MIL461 / CISPR25

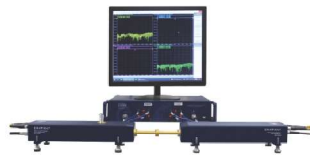


Near Field Probe & Transient Pulse Limiter
DC-6GHz, 10/20dB attenuation
Preamplifier available

Vector Network Analyzers



Cobalt Series
Freq. Range : 0.1MHz~20.0GHz
Two/Four Ports
Meas Speed : 10μs/point
Upto 500001 meas point per sweep



CobaltFET Extender Series
Freq. Range : 18GHz~330GHz
Two/Four Ports
Meas Speed: 10μs/point



Award Winning VNA
Freq. Range : 10MHz~44GHz
2 ports, Meas Speed : 22μs/point
Upto 500001 meas point per sweep



Multiport VNA
Freq. Range : 300kHz~9GHz
6, 8, 10, 12, 14 & 16 ports
Meas Speed : 24μs/point
Upto 500001 meas point per sweep



Compact VNA Series
Freq. Range : 9kHz~44GHz, Two Ports
Meas Speed : 16μs/point
Upto 500001 meas point per sweep



1 Port VNA / Reflectometer
Freq. Range : 1MHz~18GHz
Single Port,
S₁₁ as log magnitude DFT, Smith & more
100001 measurement point / sweep



Epsilon meter
Freq. Range : 3MHz~6GHz
Impedance : 50Ω
Sheet thickness: 0.3~3mm
Suitable for Ceramics testing



Calibration Kits
Freq. Range: 9kHz~330GHz
-Mechanical
-ACM
-Waveguide

Power Analyzers



PPA500/1500 Series
Basic Accuracy 0.05%
BW : DC~500kHz
Sampling rate : 1MSa/s, No gap



PPA3500 Series (6 Channels)
Basic Accuracy 0.04%
BW : DC~1MHz
Sampling rate : 1MSa/s, No gap



PPA4500 Series
Basic Accuracy 0.03%
BW : DC~2MHz
Sampling rate : 2.2MSa/s, No gap



PPA5500 Series
Basic Accuracy 0.01%
BW : DC~2MHz
Sampling rate : 2.2MSa/s, No gap

Frequency Response & Impedance Analyzers



Impedance Analyzers
Freq. Range : DC~Upto 130MHz
Basic Accuracy : 0.01dB, 0.01°
Built in : LCR Meter, Vector Voltmeter,
True RMS Voltmeter, Power Meter



PIM - 10/30 Power Impedance Module
with PSM3750 for Impedance Measurement
into Live DC Powered device upto 400V
& Upto 30Arms



SFRA45
Freq. Range : 5Hz~45MHz
Basic Accuracy : 0.02dB 0.05°
Compliance to IEC 60076-18



Freq Range 5Hz-5MHz
Single / Dual Freq SLM
Built in SG, LCR Meter, OSC
VSWR Meter, FRA

Power Supplies



PSD3000 Series
0~30V DC / 0~5A DC
Upto 195W, Single/Dual/Multiple
Tracking Outputs



PSD3205X/3205X-2
0~32V DC / 0~5A DC
160W/320W, Single/Dual Output
Load & Line Regulation: 0.01%



PSD3210/3210-2
0~32V DC / 0~10A DC
320W/640W, Single/Dual Output
Load & Line Regulation: 0.01%



PSD4000 Series
0~32V DC / 0~3A DC
Single/Dual/Trippl Output
Load & Line Regulation: 0.01%

Programmable DC Power Supplies



PSD7000 Series
0~32V / 0~5A DC
Single / Multiple Output
Arbitrary Function
USB, LAN, PC Software



DCX / DCAe Series: 200W/400W
0~600V / 0~40A DC, Multi Ranging
Arbitrary Function
RS232, RS485, USB, LAN, Analog
Rack Mount, 2U, 6 Units in single rack



SM800/1500W Series
0~400V / 0~100A DC, Auto Ranging
Analog Interface, Arbitrary Function
Rack Mount, 2U



PS/PSAe Series: 800/1600W
0~1000V / 0~100A DC
Arbitrary Function
RS232, RS485, USB, LAN, Analog
Rack Mount, 1U



PS/PSAe Series: 3200W
0~1000V / 0~200A DC
Arbitrary Function
RS232, RS485, USB, LAN, Analog
Rack Mount, 2U



SM3300 Series: 3300W
0~660V / 0~220A DC, Auto Ranging
Built in Ethernet with sequencer
Rack Mount, 2U



PS Series: 5000W
0~1000V / 0~312A DC
Arbitrary Function
RS232, RS485, USB, LAN, Analog
Rack Mount, 3U



PS Series: 8kW~20kW
0~1500V / 0~500A DC
Arbitrary Function
RS232, RS485, USB, LAN, Analog
Rack Mount, 4U



SM6000 Series: 6000W
0~600V / 0~400A DC
Arbitrary Function,
Analog Interface/LAN, Rack Mount, 4U
Analog, RS232, RS485, USB, LAN



DCPS Series: 600W~36000W
0~2250V / 0~1200A DC
Rack Mount, 3U~6U

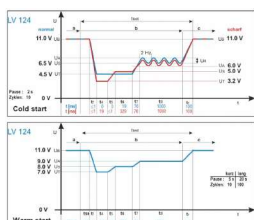


1.5kW~100kW
0~6000V / 0~8000A DC
Rack Mount, 1U~16U
RS232, Isolated Analog, LXI



100kW~2000kW+
0~6000V / 0~24000A DC
Floor Standing Cabinet
RS232, Isolated Analog, LXI

Automotive Test as per LV124 & LV148



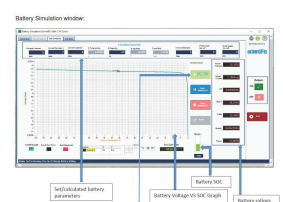
PV Solar Simulator Software



Battery Cycler Software



Battery Simulation Software



Regenerative Bi-Directional Power Supplies

For Electrical & Hybrid Vehicles Testing



SM15K Series

Voltage Range: 0~1500V
Current: -450~450A
Wattage: 15kW Source & Sink
Maximum power upto $\pm 900\text{kW}$

Bipolar DC Magnet Power Supplies



Power : Upto $\pm 750\text{W}$
Voltage : Upto $\pm 40\text{V}$
Current : Upto $\pm 18.75\text{A}$
RS232, RS485, USB, LAN/Analog

Programmable AC Power Sources



ACPS Series

Power : 500W~5000W
Voltage : 150VAC / 300V AC
Current : upto 46A/per phase
RS232, RS485, USB, LAN/Analog



SME1300 Series

Power : 500W~2000W
Voltage : 150VAC / 300V AC
Current : upto 8.4A

DC Electronic Loads



SME1700+ Series

Power : 175W~350W
Voltage : 150/500Vdc
Current : 15/30/60Adc
RS232, RS485, USB/LAN



SME1900 Series

Modular Design - 2/5 Modules
Power : upto 2000W
Voltage : 0~80Vdc
Current : upto 400Adc



DL Series

Power : 600W~26.4kW
Voltage : 0~1200Vdc
Current : 0~2880Adc
RS232, RS485, USB/LAN



Alx Series

Power : 1.25kW~20kW
Voltage : 0~200 to 0~1000Vdc
Current : 0~15 to 0~1040Adc
RS232 and Ethernet

Regenerative Grid Emulators & Electronic Loads



GE+EL - AC&DC

7.5~1MVA+ / 6.75kW~1MW+
Max. Voltage : 295Vrms
Frequency : 10~1000Hz

Regenerative Grid Emulators



GE - AC & DC

7.5~1MVA+ / 6.75kW~1MW+
Max. Voltage : 295Vrms
Frequency : 10~1000Hz

4 Quadrant Voltage / Current Amplifiers & Lab Amplifiers



4-Quadrant & Lab Amplifiers

Freq. Range : DC~1MHz, 100V/ μs
Voltage : Upto 800Vpk, Current : $\pm 40\text{A}$
Upto 1200W Source, 800W Sink

High Voltage Power Supplies



HVPS Series

Output Voltage : Upto 30kV
Output Current : Upto 120mA
Wattage : 300W/600W/1000W

Magnet Power Supplies



Output Voltage upto 1000V DC
Current upto 20000A
Wattage 1MW+
Current Stability: 5ppm over 8 Hr

High Voltage Power Supplies



SR Series

Output Voltage : 0~150kV
Wattage upto : 300W~300kW+

Electron Beam Power Supplies



EB-M Series

Output Voltage : 0~45kV/60kV
Wattage upto 80kW+

Capacitor Charging Power Supplies



CCR Series

Output Voltage : 0~60kV
Wattage : 300J/S~300kJ/S+

Impulse Winding Testers



SME1200 Series (1 / 4 / 8 Channels)
 Impulse Voltage : 100V~10kV
 Comparison Methods : 4
 Sampling Rate : 40 / 100MSa/s

Automatic Transformer Testers



SME6030 Series
 LCR + Transformer Test System
 Test Frequency : 20Hz~200kHz
 Accuracy : 0.1%

DC Resistance Meters



SME1400 Series
 Range : 0.1 $\mu\Omega$ ~110M Ω
 Accuracy : 0.01%
 Temperature Compensation

High Resistance Meters



SME1290 Series
 Test Voltage : 1 μ V~20 V
 Resistance : 10 P Ω
 Test Current : 0.01 pA~20 mA

Hipot Testers



SME1130 Series
 Output Voltage upto 10kV AC / 12kV DC
 AC / OSC / DC / IR Tester,
 Leakage Current : Upto 20mA



SME1110 / 1120 / 1190 Series
 Output Voltage upto 5kV AC / 6kV DC
 1 / 4 / 8 Channels,
 AC / DC / IR Tester,
 Leakage Current : 10mA / 20mA / 100mA

Insulation Resistance Meters



SME1202/1204 Series
 Test Voltage : 1V~1000V
 Resistance : 100k Ω ~10T Ω
 Test Current : 1nA~1mA

Source / Measure Units



Precision Source/Measure Unit
 Output Voltage : $\pm$ 63V~ $\pm$ 210V
 Output Current : 10nA ~ $\pm$ 10A
 Current Resolution : 10fA

Multifunction Safety Compliance Analyzers



SME1180/1180S Series
 O/P Voltage : 5.0kV AC / 6.0kV DC
 Current Range : Upto 120mA
 7 in 1 comprehensive test system

Semiconductor C-V Characteristic Analyzers



SME510 Series
 Test Freq. : 10kHz~2MHz, 1/2 Ch
 Gate voltage V_{GS} 0 - $\pm$ 40V
 Drain voltage V_{DS} 0 - Upto $\pm$ 3000V

Battery Testers



SME1403 Series
 R, V, R-V, Z- θ° , Z- θ_r , L-Q, L-R,
 R-X, R-Q, Accuracy : 0.1%
 1kHz AC constant Current source test

RF Amplifiers & Matching Networks



Aurora & Helios Series
 Power Level : upto 50kW
 Frequency : 2MHz~100MHz
 Serial & Analog Connector

Safety Testers

Impulse Testers as per IEC 62368-1



SMSUG10kV
 Impulse Voltage : 10kV
 Compliant to IEC60950, 60065 & 62368-1
 4M Ω load selector



SMSUG1.2x50-7kV
 Impulse Voltage : 250V~7kV
 Voltage Waveform : 1.2x50 μ s
 Compliant to IEC60950, 62368-1 & ITU-T



SMSUG10x700-7kV
 Impulse Voltage : 250V~7kV
 Voltage Waveform : 10x700 μ s
 Compliant to IEC60950, 62368-1

Ground Bond Testers



Output Voltage : 8V
 Test Current : 1~45A
 Ground Resistance : 0-600m Ω
 Testing Time : Upto 999.9s

EMI Receivers



EMI Receivers

Freq : 9kHz~1GHz
Full Compliance to CISPR16
6dB Bandwidth: 200Hz, 9kHz, 120kHz
Window 10 embedded OS



Digital Click Analyzer

Freq : 150kHz, 500kHz, 1.4MHz, 30MHz
Full Compliance to CISPR16
4 Channels, each with Peak & Quasi Peak detector to perform according CISPR14-1
Window 10 embedded OS

Antennas



Horn Antenna

Freq. : upto 40GHz
Double Ridged Linear Polarized
Application: Emission measurement & Immunity Testing



Biconical Antenna

Freq : upto 1GHz
50 ohm connector
Application: Emission measurement & Immunity Testing

Line Impedance Stabilization Networks



Single phase / 2 wire

16A~100A / 200A
As per CISPR 16-1-2
Freq: 9kHz~30MHz



Three phase / 4 wire

32A~400A
As per CISPR 16-1-2
Freq: 9kHz~30MHz



MIL / DO160 Standard

25A~1500A
As per MIL 461E/F, DO160
Freq: (9kHz)150kHz~30MHz(100MHz)



Automotive Standard

25A~800A
As per CISPR 25 / ISO7637
Freq: 100kHz~150MHz

Test Solutions for Non RF Conducted Immunity



Surge Generator

As per IEC 61000-4-5, IEC 60
Surge voltage pulse: 1.2/50 μ s
Amplitude : upto 20kV
Surge Current Pulse : 8/20 μ s,
Amplitude : upto 10kA



Burst Generator

As per IEC61000-4-4
2MHz single spike to continuous burst
5000 pulses/sec, 500/package
RS232 Interface



ESD Simulator

Upto 16.5kV~30kV
Fixed & Changeable RC modules
For Commercial Automotive & MIL
Application (Automotive)



Voltage Interruption Simulator

As per IEC61000-4-11, IEC61000-4-293
AC, AC+DC Ramp function selection
Interrupted in any phase for a defined time
Voltage dips between rated & variable voltage

Test Solutions for RF conducted Immunity



According to IEC / EN 61000-4-6,
ISO11452, CS114
Freq. Range : 10kHz~400MHz
with Power amplifier.
Extensive additions for immunity tests as
CDN, Current Clamps, EM Clamps etc.
devices are available.

Harmonics & Flickers



Harmonic and Flicker Analyzer setup
with Clean power source and software
Fully compliant to IEC61000-3-2,
IEC61000-3-3, IEC61000-3-11,
IEC61000-3-12



3kVA / 6kVA Single phase,
18 / 30 / 67 / 100kVA Three phase
Fully compliant to IEC61000-3-2,
IEC61000-3-3, IEC61000-3-11,
IEC61000-3-12

Standards Covered :

Emission:

IEC61000-6-3
IEC61000-6-4

Harmonic & Flicker

IEC61000-3-2
IEC61000-3-3
IEC61000-3-11
IEC61000-3-12

Immunity: Non RF

IEC61000-4-2
IEC61000-4-4
IEC61000-4-5
IEC61000-4-8
IEC61000-4-9
IEC61000-4-11
IEC61000-4-13
IEC61000-4-12
IEC61000-4-16
IEC61000-4-17
IEC61000-4-18
IEC61000-4-28
IEC61000-4-29
IEC61000-4-34
IEC61000-4-39

Immunity: RF

IEC61000-4-3
IEC61000-4-6

Military standards:

MIL461E/F
MIL704
DO160

Automotive standards:

CISPR25
ISO10605
ISO7637-2
ISO7637-3
ISO7637-4
ISO11452
LV123/124/148

Dielectric Test Setup



Test Freq: upto 130MHz
500°C, 1000°C with Furnace
-190 to RT with Cryostat
Analysis Software

Automated Test Equipment



Current Sensor Calibration
Inverter Test Bench
Endurance Testing
Double Pulse Test
DC - DC Converter Testing
Energy Storage Test Systems
Electro Pulsing
& Custom Built

ESD Safe Industrial & Laboratory Work Benches



DSOs

Switchable Probes
x1/x10, x1/x100, upto 300MHz



High Voltage Probe
x1000, 40kV



Optical Differential Probe
100MHz ~ 1GHz / Upto 5000V



Active Probe
x10, 1.2GHz



Active Differential Probes
DC-200MHz / upto $\pm 7000V$



ISFE Channel



Power Supplies

Output Cables
20A ~ 200A



HV Probes



50 Ω Termination



19" Rack Mount Kit



Blocking Diode
50A ~ 600A



Rack & Integration 16U ~ 42U



Power Analyzers

AC / DC Current Clamp
1A to 5000A



Current Probes
Upto 750App



High Frequency Current Shunt
3A ~ 500A



Zero Flux Current Transducer



Transimpedance Amplifier



Single Phase Breakout Box



Meters

4 Terminal Kelvin Test Leads



4 Terminal Test Leads
for Transformer



SMD Test Fixture



4 Terminal Test Fixture



SMD Kelvin test tweezers



Dielectric Material Test Fixture



- Microgrid Testing System
- Photovoltaic Simulation

- EVs Testing System
- Power Conversion Testing System

- Automotive Components Testing
- Electrical Safety Testing

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