

**BK PRECISION**

# New Products Catalog 2024



# DC Power

## 9140 Series Triple Output Multi-Range DC Power Supplies



Output **100 W** per Channel  
or **300 W** Combined



The 9140 Series triple output multi-range DC power supplies combine industry-leading power density and performance with an extensive set of features in a compact 2U form factor. Three isolated output channels each produce 100 W of clean power with low ripple and noise characteristics. Combine channels for up to 300 W total output power.

### Key Features

- Three isolated output channels
- Compact 2U form factor
- Multi-ranging operation
- Low output ripple & noise
- Overvoltage (OVP), overcurrent (OCP), and overtemperature (OTP) protections
- Series/Parallel operation
- Front panel USB data logging
- LabVIEW™, IVI-C, IVI.NET drivers provided
- cTUVus certification

### Powerful List Mode

Highly-configurable and intuitive list editing ...

Step	Voltage	Current	BOST	EOST	Dwell
1	2.000	0.150	X		5.0
2	50.000	0.500			5.0
3	45.000	0.550		X	5.0
4	40.000	0.600			3.0
5	35.000	0.700	X		4.0
6	32.000	0.800			5.0



Run on multiple channels simultaneously.

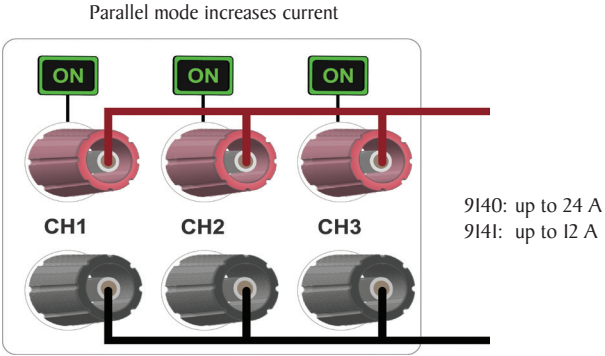
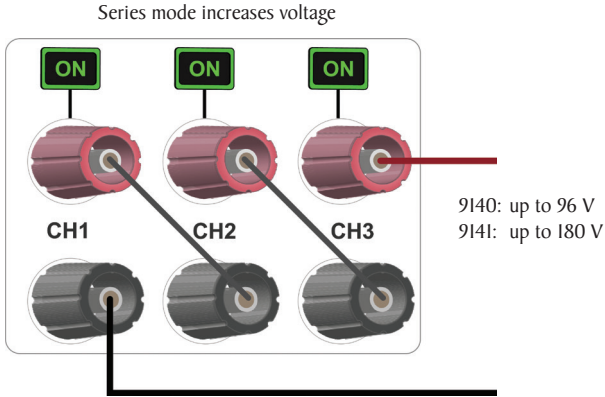
Model	9140 / 9140-GPIB	9141 / 9141-GPIB
Voltage per Channel	32 V	60 V
Current per Channel	8 A	4 A
Max. Output Power	100 W per channel (300 W combined)	

### Applications

Benchtop or rackmount applications requiring multiple outputs, precise test sequence generation, and other applications benefiting from a flexible power range delivered in a lightweight, compact package.

### Series and parallel operation

Combine two or all three channels in series or parallel to increase voltage or current.



## 9240 Series Multi-Range DC Power Supplies



### Key Features

- Isolated and floating output with front panel sense
- Up to 120 W or 200 W of multi-range power in compact 2U
- Dedicated battery charge function
- Advanced list mode programming
- LED test mode
- Direct data logging to USB flash drive
- Overvoltage (OVP), overcurrent (OCP), overtemperature (OTP) protection, and key-lock function
- LabVIEW™, IVI-C, IVI.NET drivers provided
- cTUVus certification mark

The 9240 Series sets a new standard for general purpose DC power supplies by including many features and capabilities found in high performance instruments as standard.

### Applications

The easy-to-use interface combined with advanced list programming, battery charge mode, and data logging serve a wide range of applications including production test, R&D, electronic service, and education.

Model	9240	9241	9242
Voltage Range	0 to 32 V	0 to 60 V	0 to 60 V
Current Range	0 to 8 A	0 to 4 A	0 to 10 A
Max. Output Power	120 W		200 W



# High Voltage ATE Solutions

## MR Series 3 kW & 5 kW Multi-Range DC Power Supplies



Output up to **1000 V** or **120 A**

The MR Series high voltage multi-range DC power supplies deliver up to 5 kW of clean output power in a compact 2U form factor. These power supplies are suited for both bench use and automated test system applications requiring a wide range of voltage and current.

Integrators will benefit from fast command response times, excellent regulation, and low noise characteristics. In addition, this series supports USB, GPIB, LXI compliant LAN, and analog interfaces for remote control and programming.

### Automation

- LXI compliant LAN interface
- Fast command response time (10 ms)
- List mode programming
- Adjustable voltage and current slope (rise and fall time)
- Built-in web server
- Operating software included
- LabVIEW™, IVI-C, and IVI.NET drivers provided

### Safety and Protection

- Overvoltage, overcurrent, overpower, and overtemperature protection
- Key-lock function
- Foldback protection mode
- cTUVus certification mark

### Integration

- Compact 2U form factor
- Simple single-phase AC input
- Multi-unit control
- Parallel operation for more output power
- Optional rack-mount kit
- Galvanically isolated analog control and monitoring interface



Standard interfaces

### Applications

Design verification, production test, R&D, solar, and other applications requiring a wide range of voltage or current.

Model	MR3K160120	MR160120	MR25080	MR50040	MR100020
Max. Output Voltage	160 V	160 V	250 V	500 V	1000 V
Max. Output Current	120 A	120 A	80 A	40 A	20 A
Max. Output Power	3000 W			5000 W	



# High Voltage ATE Solutions

## Application software and integration

PC software is provided for front panel emulation, generating and executing test sequences, or logging measurement data without the need to write source code.

- Log voltage, current, and power values as well as time stamp, CV/CC, and output status.
- Save and load list files to/from the power supply's internal memory.
- Create an unlimited number of external list files to be executed from PC memory. Save and recall list files to/from the PC.

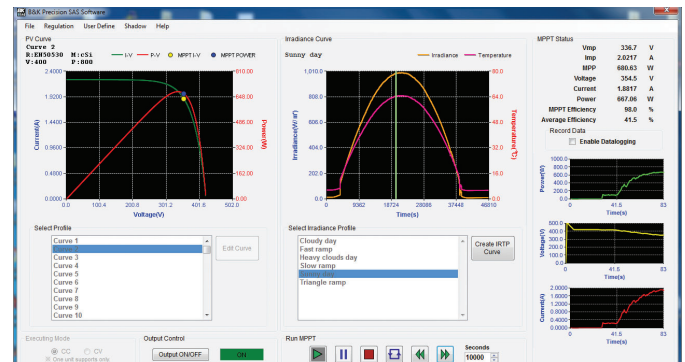


## Solar Array Simulation (SAS) Software Option

Solar inverter designers need to verify their inverter is capable of delivering the maximum power available from solar modules. The I-V curve of solar cells can be influenced by various weather conditions such as a cloudy day. Combined with the SAS application software, MR users can easily simulate the I-V curve of different arrays under various irradiance conditions while measuring and validating the effectiveness of the inverter's MPPT algorithm.

### Key Features

- Variety of input parameters ( $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$ ,  $I_{mp}$ , and temperature coefficient)
- Monitors and logs real-time voltage, current, power, MPPT efficiency, and average MPPT efficiency
- Simulate I-V curve under different weather conditions during a day
- User-definable irradiance profile
- Generate a custom I-V curve with up to 4,096 data points
- Test to EN50530, NB/T32004, Sandia lab standards



## HPS Series 10 kW, 20 kW, and 30 kW DC Power Supplies - Future Product

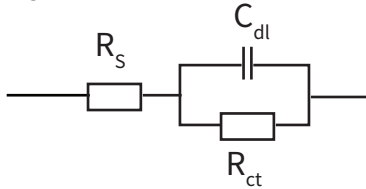
The HPS Series will meet the growing demand for higher power solutions.

These DC power supplies will feature a high-power density design offering up to 30 kW in a 3U form factor. Several 10 kW and 20 kW models will be available in various voltage/current combinations as an off-the-shelf solution. The higher power 30 kW model will be build-to-order with configurable voltage/current ratings.



# Battery Test Solutions

B&K Precision offers a wide array of internal resistance/impedance based battery test solutions including handheld and benchtop units for field environments, labs, quality control, and production use, as well as frequency response analyzers for complex AC impedance data analysis and charge/discharge systems.



Model of simplified Randles cell

## Battery charge/discharge solution with sequencing and data logging



Model	BCS Series	9200B, 9115/B, 8600/B, 8500B Series	603B	BA6010 & BA6011	BA8100
Test Method	<b>Charge / Discharge / Simulation</b>	<b>Charge / Discharge</b> Charge and discharge battery while logging results.	<b>DC Resistance</b> Measure open and loaded battery voltage and calculate internal DC resistance.	<b>AC Impedance</b> Uses a 1 kHz fixed frequency AC signal to calculate battery impedance.	<b>EIS (electrochemical impedance spectroscopy)</b> Swept frequency technique. Stimulates battery with a small amplitude AC signal and provides a graphical plot of the battery's response.
Result	Displays calculated amp-hours (Ah). Safely charge/discharge batteries with configurable stop conditions and relay output disconnect for electrical isolation.	V/I plots with calculated amp-hours (Ah).	Displays remaining capacity of lead-acid battery in %. Internal battery resistance.	Real-time display of voltage, impedance, phase angle and capacitance.	Real-time display of voltage, current and impedance. Generates Nyquist and Bode plots to identify specific battery model elements.
Advantages	Battery simulation reduces the need for a physical battery. All-in-one charge/discharge solution in a benchtop form factor.	Measures actual capacity of a battery directly.	Quick, easy and repeatable measurement, records battery measurements.	Fast measurement speed. Ability to measure battery capacitance.	Provides large amount of data and detailed information about individual battery model elements.
Disadvantages	Max source/sink current of 5 A.	Time consuming.	Not suitable for batteries over a 100 A.	Individual battery model elements seen as one impedance value.	Requires complex data analysis.

## BA6010 Series Battery Analyzers



Dual Display

The BA6010 Series Battery Analyzers use a 1 kHz AC constant current source to measure the battery's impedance expressed by 11 different measurement functions.

### Features & Benefits

- 4.3-inch color LCD display
- Graphing display of voltage and resistance with on-screen measurement tools
- 4-wire test fixture with monitoring for Hi drive open, Low drive open, and both open
- Compare and sort using 10 bins with statistical evaluations
- Δ% mode for quickly determining the percent difference between batteries

Model	Input Voltage	Input Range	Measurement Functions	Test Signal	Basic Accuracy Impedance	Impedance Resolution	Voltage Resolution	Remote Interface
BA6010	100 μV to 60 V	6 V / 60 V	R, R-V, V, R-Q, L-Q, L-R, R-X, C-D, Z-Q, Z-R and R-C	Sine wave (1 kHz ±0.2 Hz)	0.1%	1 μΩ	1 μV	RS232, USB, and GPIB
BA6011	100 μV to 300 V	30 V / 300 V						

# Battery Test Solutions

## BA8100 EIS Battery Analyzer



### Key Features

- Fixed frequency measurements from the front panel
- Swept stimulus frequency with included software
- Measurements include impedance  $Z$ , phase angle  $\theta$ , voltage and current
- LAN, USB (COM), and RS232 interfaces standard



The BA8100 uses EIS (Electrochemical Impedance Spectroscopy), a swept frequency technique for evaluating the internal electrochemical and electrical properties of a battery under test.

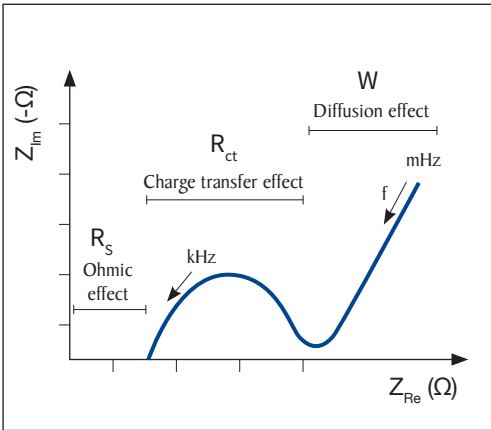
EIS is a method to characterize the impedance of a battery by stimulating it with a small amplitude AC signal.

### Applications

The BA8100 brings EIS technology out of the research lab and into the industrial market, with a price-performance ratio suited for:

- Incoming inspection
- Battery second use (B2U)
- Battery stack service
- Manufacturing

### Analyze data using Nyquist plot



### Simple 4-wire connection

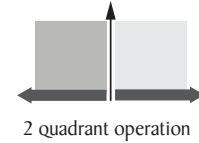


Key Specifications	
Impedance Z	Accuracy: $\pm(0.5\% \text{ of reading} + 5 \mu\Omega)$
Rated Voltage	0.5 V to 80 V
Rated Current	0.5 A to 3 A DC
Frequency Range	0.05 Hz to 10 kHz



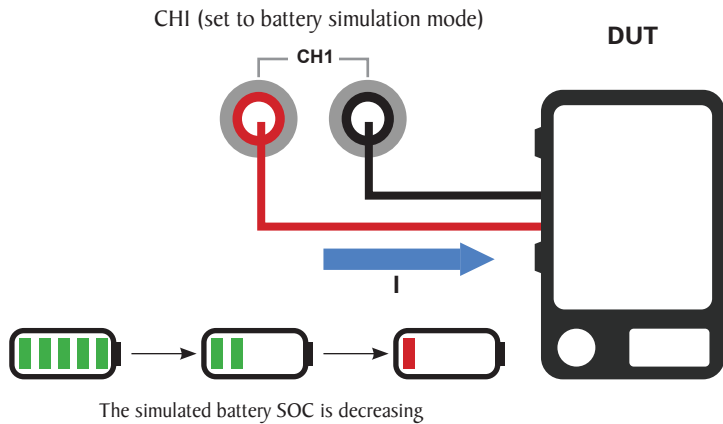
# Battery Test Solutions

## BCS Series Battery Charger/Simulator and Precision Source



The BCS6401 and BCS6402 battery charger/simulator and precision DC power supplies are optimized for testing batteries and battery-operated devices. Both models feature source/sink capabilities, a bipolar output, and variable output impedance.

### Battery Simulation



### Key Features

- Source or sink up to 150 W with 2-quadrant operation
- Dual channel and dual range operation (BCS6401 only)
- Perform battery charge, discharge, and simulation tests
- Simulate a rechargeable battery
- Sink current up to 5 A
- Bipolar output
- Variable output impedance

### Applications

The BCS Series charge/discharge and simulation features help accelerate battery design and development of portable electric devices with application areas including:

- Cell phones, tablets, wearable devices, and other IoT devices
- Chargers and charger circuitry
- DC-DC converters

- Eliminates the need for a physical battery
- Jump directly to specific charge state to verify device performance
- Monitor DUT behaviors at various simulated battery internal resistance (IR) levels

Model	BCS6401		BCS6402
Channels	2		1
Voltage	High	CH1: ± 15 V CH2: 0 to 15 V	± 30 V
	Low	± 9 V 0 to 9 V	
Current (Source / Sink)	High	3 A	5 A
	Low	5 A	-
Power	45 W per channel		150 W

## 9830B Series Programmable AC Sources



### Key Features

- AC, DC and AC+DC power source
- 3-Phase capability using 3 AC sources and 3-Phase kit
- Low total harmonic distortion (THD) meets the IEC 61000-3-2 standard
- Comprehensive measurement capabilities: Vrms, Arms, +Apk, -Apk, inrush current, frequency, power factor, apparent power, reactive power, true power and crest factor
- 0.98 power factor at AC input stage
- Built-in standard waveforms: sine, square, clipped sine
- 30 built-in THD waveforms
- Step, List, and Pulse modes for generating power line disturbance (PLD)

The 9830B Series sources are low distortion AC sources delivering a maximum of 3000 VA in a 3U form factor.

### 3-Phase AC power



Connect additional units for split, 2 and 3 phase testing.

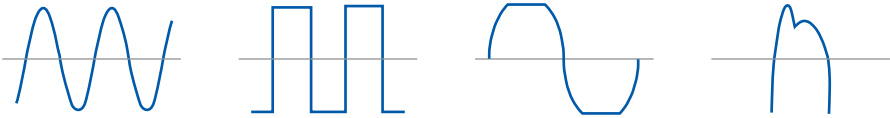


- Supports 3-phase Y configuration
- Full 0° to 360° phase control
- 45 Hz to 600 Hz operating frequency
- Up to 2000 VA / 3000 VA per phase

### Applications

- Pre-compliance testing
- Simulate grid faults, voltage sag, frequency, and phase disturbances, according to IEC61000-4-11/14/28/34
- Electromagnetic compatibility (EMC), according to IEC61000-3-2
- Consumer electronics, appliances, industrial controls, avionics
- Evaluate transformers, TRIACs, SCRs, and passive components

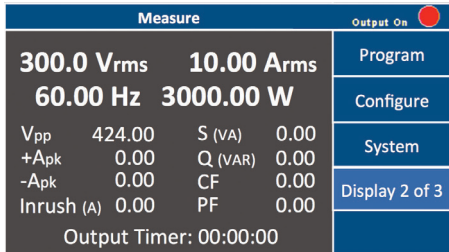
### Waveform operations



Select sine, square, clipped sine or harmonic distortion waveforms. Set amplitude, frequency and phase.

Model	9832B	9833B
Max Power	2000 VA	3000 VA
Max Voltage (rms)	AC	150 V / 300 V / Auto
	DC	± 212 V / ± 424 V
Max Current (rms)	0 to 150 V	20 A
	0 to 300 V	10 A
Frequency Range	Single phase	45 to 1200 Hz
	3-Phase	45 to 600 Hz
Load Regulation	≤ 0.1% FS (resistive load)	
Total Harmonic Distortion (THD)	≤ 0.5% at 45 to 400 Hz (resistive load)	
Remote Interfaces	USB (USBTMC-compliant), GPIB, and LAN	

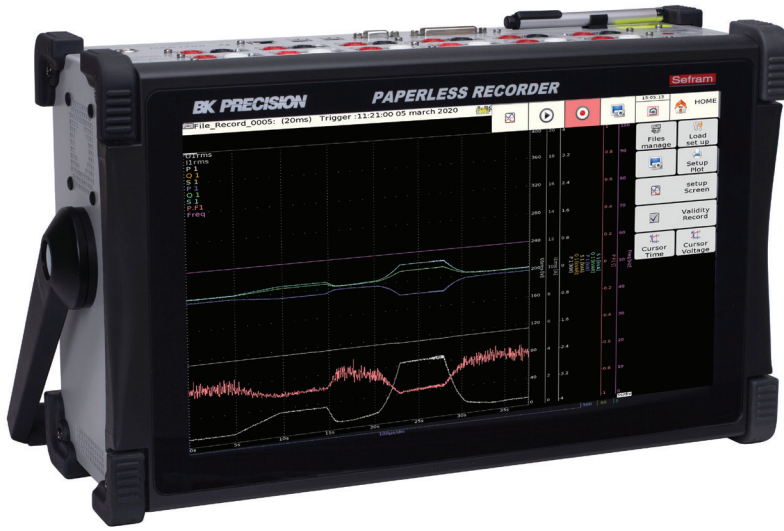
### Measurement display



All 12 measurements can be displayed simultaneously on a large and bright 4.3" color LCD

# Data Recorders

## DAS1700 High Speed Data Acquisition System



### Key Features

- Maximum sampling rate of 1 MSa/s (1  $\mu$ s) on 36 channels simultaneously
- Up to 72 channels (with multiplexed board)
- Measure up to 1000 VAC with the high voltage board
- 16 bit resolution with multiplexed and strain gauge boards
- 14 bit resolution with universal and high voltage boards
- Wide 15.6 in. touchscreen display
- 500 GB SSD internal memory (2 TB optional)
- Free software and control analysis

The DAS1700 high speed, configurable data acquisition system combines a fast sampling rate, deep memory, and a large touch screen display. The system also includes built-in software tools for power analysis and a mathematical function editor for performing calculations between multiple channels.

### Measurement Boards

Configure the DAS1700 to fit your needs with any combination of module boards with up to 3 in the base unit, or up to 6 with the extension option.

**Universal Board**



**High Voltage Board**



**Multiplexed Board**



**Strain Gauge Board**



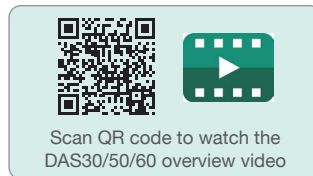
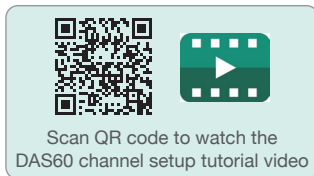
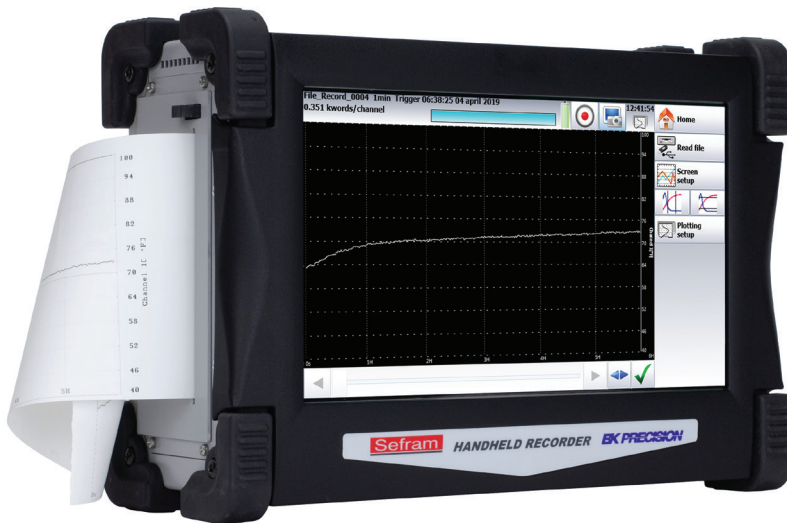
Extension option for up to 6 measurement boards

Board Type	Universal	High Voltage	Multiplexed	Strain Gauge
Channels	6	6	12	6
Maximum Voltage	$\pm 500$ V or 424 VRMS	$\pm 1000$ V or 1000 VRMS	$\pm 25$ VDC	$\pm 25$ VDC
RMS Voltage	√	√	-	-
Resolution	14 bit	14 bit	16 bit	16 bit
Sampling Rate	1 MSa/s	1 MSa/s	5 kSa/s	100 kSa/s
Voltage	√	√	√	√
Current	√	√	√	-
Frequency	√	√	-	-
Thermocouple	√	-	√	√
Counter	√	√	-	-
Power Analysis	√	√	-	-
PRT Sensor	-	-	Pt100/Pt200/Pt500/Pt1000	Pt100/Pt1000



# Data Recorders

## DAS30/50/60 High Speed Multi-Function Recorders

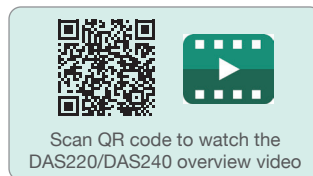


The DAS30/50/60 high-speed multi-function recorders are suited for motor monitoring, manufacturing, and industrial applications. They feature 2, 4 or 6 configurable channels, high-speed sampling (1 MSa/s), a wide input range ( $\pm 5$  mV to  $\pm 500$  V), large internal solid-state memory up to 64 GB, 9.5 hrs of battery life, and CAT III isolation rating.

### Features & Benefits

- Fast 1 MSa/s sample rate (memory mode) and 100 kHz bandwidth for capturing intermittent events
- Accurately view and record signals from  $\pm 5$  mV to  $\pm 500$  VDC and 424 VRMS
- CAT III 600 V rated isolated channels
- Wide 10-inch touchscreen TFT display
- Capture mixed signals with one instrument, such as high voltage/current waveforms, temperature and logic data

## DAS220-BAT & DAS240-BAT Portable Multi-Channel Data Recorders



The DAS220-BAT and DAS240-BAT are suited for process control and environmental sensor monitoring. They feature expandability from 10 to 200 configurable channels, a sampling interval of 1 ms/channel, input range of  $\pm 0.5$  mV to  $\pm 100$  V, an internal solid state memory of 32 GB, and up to 15 hrs of battery life.

### Features & Benefits

- Wide 10-inch touchscreen TFT display
- 10 built-in universal analog inputs
- Extended battery life of up to 15 hours
- Versatile temperature measurements supporting thermocouples and Pt100 / Pt1000 temperature sensors

Model	DAS30	DAS50	DAS60	DAS220-BAT	DAS240-BAT
Isolated Universal Channels	2	4	6	10	20 to 200
File Mode Sampling Interval	5 $\mu$ s (200 kSa/s)	5 $\mu$ s (200 kSa/s)	5 $\mu$ s (500 kSa/s)	1 ms	1 ms
Memory	32 GB	32 GB	64 GB	32 GB	32 GB
Battery Life	9.5 hrs	9.5 hrs	9.5 hrs	15 hrs	15 hrs
110 mm Thermal Printer	Factory option	Factory option	Factory option	-	-
2 Pt100/Pt1000 Inputs	Factory option	Factory option	Included	Included	Included

# Multimeters

## 5490C Series 5 ½ & 6 ½ Digit Bench Multimeters



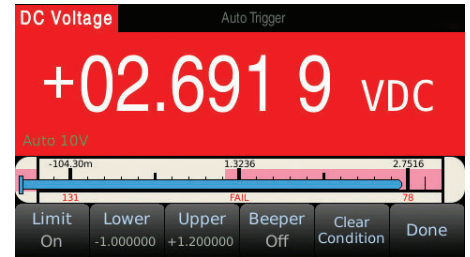
The 5490C Series bench multimeters are designed for accuracy, repeatability and ease-of-use.

### Key Features

- 12 measurement functions: DCV, ACV, DCI, ACI, 2 and 4-wire resistance, capacitance, frequency, diode, temperature, continuity test, DCV Ratio
- Histogram, bar meter, and trend chart display
- Min, Max, Peak-Peak, Average, Standard Deviation statistics
- Null, dB, dBm, %, mx+b, and run/stop math functions
- Measurement speed up to 1000 readings/s
- Operating software provided

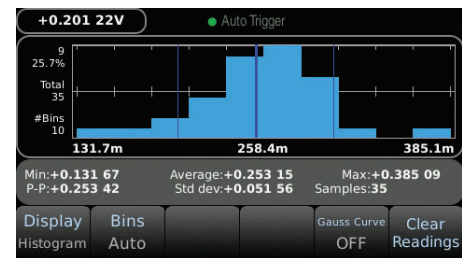
Model	5492C	5492CGPIB	5493C	5493CGPIB
Displayed Digits	5½		6½	
DC Voltage Basic Accuracy	0.010% (100 ppm)		0.0035% (35 ppm)	
Rear Input Terminals	-		√	

### Bar meter with limit mode



Set upper and lower limit levels with PASS/FAIL counter and indicators.

### Histogram with statistics



Histogram display mode to view distribution of measurement data.



\* GPIB model option

## 390B Series True RMS Handheld Digital Multimeters

The 390B Series True RMS multimeters offer a well-rounded solution for general purpose measurement applications.

Model	390B	391B	393B	394B
Display Count	40,000 count	40,000 count	100,000 count	50,000 count
DC Voltage Basic Accuracy	0.03%	0.03%	0.015%	0.05%
Bluetooth Connectivity	√	-	-	-
Data Log Capacity	40,000 readings	20,000 readings	20,000 readings	-



### Model 394B Process Multimeter

Model 394B combines the capabilities of a process calibrator with a full-featured True RMS multimeter in one package.

- Source/Measure 0-20 mA and 4-20 mA DC current
- Simultaneously monitor mA and % of scale
- Loop power function supplies power for evaluating and troubleshooting process transmitters
- HART® mode inserts 250 Ω resistor in series with loop power output when evaluating devices using the HART communication protocol

## 2560B Series Digital Storage and Mixed Signal Oscilloscopes



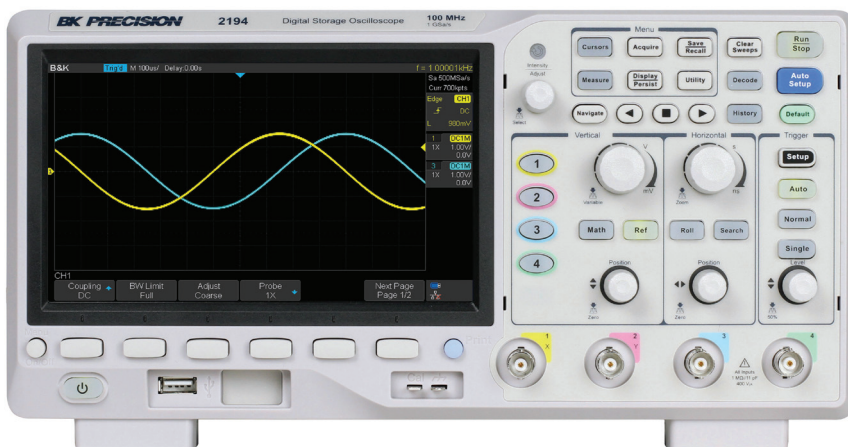
### Key Features

- Bandwidth up to 350 MHz
- 4 analog channels
- Maximum sampling rate of 2 GSa/s
- 200 Mpts memory depth
- 10.1" capacitive touchscreen display
- Serial bus decoder supports I<sup>2</sup>C, SPI, UART, CAN and LIN protocols

This series of oscilloscopes expands debugging capabilities with new and improved features not found in previous models. Each model provides 4 channels with 200 Mpts memory depth and a maximum sample rate of 2 GSa/s. The logic analyzer and decode software provide 16 additional digital channels and serial bus decoding support.

DSO Model	2565B	2567B	2569B
MSO Model	2565B-MSO	2567B-MSO	2569B-MSO
Bandwidth	100 MHz	200 MHz	350 MHz
Channels	4 Analog		

## 2194 Digital Storage Oscilloscope



### Key Features

- 100 MHz bandwidth
- 4 analog channels
- Maximum sample rate of 1 GSa/s
- 14 Mpts memory depth
- 7" TFT-LCD with 800 x 480 resolution

Combining performance and value all in one portable solution, this oscilloscope provides 100 MHz of bandwidth in a 4-channel configuration.

Model	2194
Bandwidth	100 MHz
Channels	4 Analog
Sampling Rate	1 GSa/s (Single channel active)
Memory	14 Mpts (Single channel active)

Increase productivity with free PC software for remote connectivity through LAN or USBTMC-compliant device ports. Access all functions without the need for programming and capture, save, and analyze measurement results.



# RF Test

## RFP3000 Series RF Peak Power Sensors

Real-Time with USB



### Real-Time Power Processing

Each sensor utilizes real-time processing and enhanced hardware triggering to capture even the most elusive signals. The RFP3000 Series specifications are impressive, offering best in class video bandwidth, rise times and time resolution.

### Optional RFM3000 Series RF Power Meter



### Key Features

- Real-Time Power Processing
- Powered by host USB connection, no need for external power supply
- SeaLATCH brand USB cable provides a reliable connection
- Superior 100 ps time base resolution
- Acquisition rate up to 100 MSPS supporting 50 points per division
- 16 automated pulse measurements
- Crest Factor and statistical measurements (e.g., CCDF)
- Includes B&K Precision's Power Analyzer software for advanced measurement and analysis



In combination with the USB sensors, this benchtop solution eliminates the need for a remote computer.

### Power Analyzer Software

Sensors are powered by the host computer's USB port. The Power Analyzer software takes full advantage of the sensor's capabilities to perform peak power measurements in real-time.

### Applications

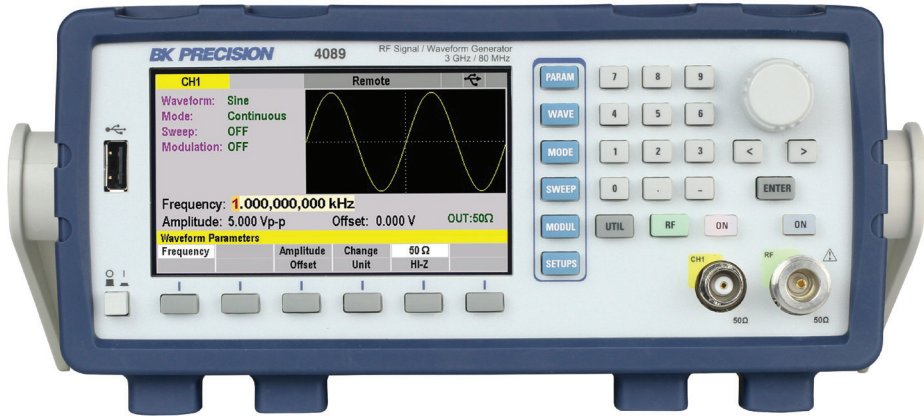
These sensors, in combination with included Power Analyzer software measure pulsed, bursted, and modulated signals used in commercial and military radar, electronic warfare (EW), wireless communications (e.g., LTE, LTE-A and 5G), consumer electronics (WLAN and WiFi 6), as well as education and research.

Sensor	RFP3006	RFP3008	RFP3018	RFP3118	RFP3040	RFP3140
RF Frequency Range	50 MHz to 6 GHz	50 MHz to 8 GHz	50 MHz to 18 GHz	50 MHz to 18 GHz	50 MHz to 40 GHz	50 MHz to 40 GHz
Video Bandwidth (high/std)	195 MHz / 350 kHz	165 MHz / 350 kHz	70 MHz / 350 kHz	6 MHz / 350 kHz	70 MHz / 350 kHz	6 MHz / 350 kHz
<b>Dynamic Range</b>						
Average	-60 to +20 dBm	-60 to +20 dBm <sup>(1)</sup> -53 to +20 dBm <sup>(2)</sup>	-34 to +20 dBm	-50 to +20 dBm	-34 to +20 dBm	-50 to +20 dBm
Pulse	-50 to +20 dBm	-50 to +20 dBm <sup>(1)</sup> -43 to +20 dBm <sup>(2)</sup>	-24 to +20 dBm	-40 to +20 dBm	-24 to +20 dBm	-40 to +20 dBm

<sup>(1)</sup> From 50 MHz to 6 GHz, <sup>(2)</sup> From >6 GHz to 8 GHz

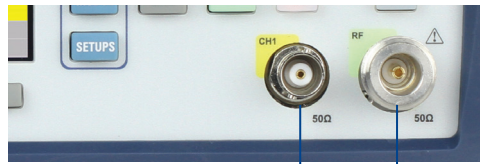
# Signal Generators

## 4088 & 4089 RF Signal/Waveform Generator



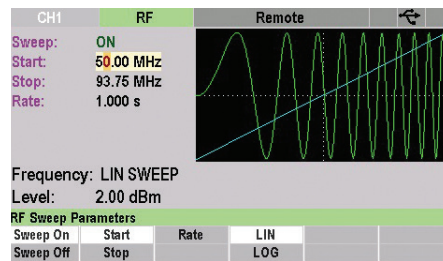
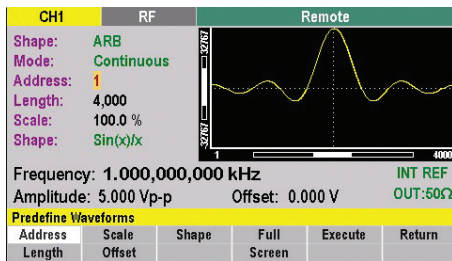
### 2-in-1 Value

These generators provide both a RF signal generator and an AWG/Function generator in one compact package. The dedicated RF channel produces pure CW signals up to 3 GHz with modulation and sweep capabilities required for general purpose RF testing. The innovative design of the 4088/4089 integrates a full featured AWG/Function generator capable of outputting arbitrary waveforms in addition to precise sine, square, triangle, and pulse waveforms up to 80 MHz.



AWG/Function generator output

RF Signal generator output



Individual output channels and configuration interfaces offer intuitive control over both AWG/Function and RF parameters to meet a variety of general purpose testing needs.

Model*	4088	4089
Channels	RF Signal + AWG/Function Waveform Channel	
<b>RF Signal Generator</b>		
Frequency Range	50 MHz to 1.5 GHz	50 MHz to 3 GHz
<b>AWG/Function Generator</b>		
Sine and Square Frequency Range	1 $\mu$ Hz to 50 MHz	1 $\mu$ Hz to 80 MHz
Arbitrary Waveform Length	16 Mpts	32 Mpts

\* GPIB option available with model 4089GPIB only

### RF Signal

- RF signal frequency up to 1.5 GHz/3 GHz
- $\pm 2$  ppm accuracy,  $\pm 1$  ppm stability, 0.1 Hz resolution
- Phase noise  $< -117$  dBc/Hz
- Amplitude level accuracy  $< \pm 1$  dB
- Internal or external AM/FM/PM and pulse modulation
- Reverse power protection up to 30 V DC or +25 dBm RF power

### AWG/Function Generator

- 16-bit resolution, 250 MSa/s, up to 32 Mpts arbitrary waveform generator
- Generate sine and square waves from 1  $\mu$ Hz up to 80 MHz
- 12 built-in arbitrary waveforms
- Internal or external modulation functions: AM, FM, PM, PWM, BPSK, and FSK
- Variable DC offset  $\pm 5$  V
- Low jitter  $< 25$  ps

### General

- 4.3-inch LCD
- Linear and logarithmic sweep
- NISPOM-compliant sanitization to securely restore factory settings
- USB (USBTMC-compliant) and LAN interfaces standard, GPIB optional

### AWG Applications

True point-by-point AWG capabilities make these generators suitable for simulating reliable clock signals, generating triggers, or validating serial data buses. Applications include electronic design, sensor simulation, and other applications requiring precise arbitrary waveform generation.

## About B&K Precision

For more than 70 years, B&K Precision has provided reliable and value-priced test and measurement instruments worldwide.

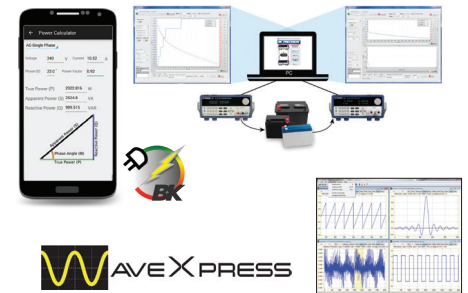
Our headquarters in Yorba Linda, California houses our administrative and executive functions as well as sales and marketing, design, service, and repair. Our European customers are most familiar with B&K through our French subsidiary, Sefram. Engineers in Asia know us through our B&K Precision Taiwan operation. Our B&K Brasil office supports our expanding customer base in Brazil and other South American countries. The independent service center in Singapore services customers in Singapore, Malaysia, Vietnam, and Indonesia.



## Video Library

View product overviews, demonstrations, and application videos in English, Spanish and Portuguese.

<http://www.youtube.com/user/BKPrecisionVideos>



## Product Applications

Browse all of our supported product and mobile applications.

<http://bkprecision.com/product-applications>