

## Laboratory Power Supplies

### ADVANCED MULTI-OUTPUT POWER SUPPLIES

8

#### MX Series

- ▶ Triple or quad output.
- ▶ Digital control.
- ▶ Multi on/off with sequence delay.
- ▶ Tracking.
- ▶ TriLink.
- ▶ Powershare.



**NEW MODEL**

**HIGHER VOLTAGE**  
120V

**HIGHER CURRENT**  
20A

**HIGHER POWER**  
420W

**OUTPUT <3mV NOISE**

TEST BRIDGE

### COMPACT POWERFLEX POWER SUPPLIES

2

#### FX Series

- ▶ Dual or triple output.
- ▶ Digital control.
- ▶ Tracking.
- ▶ Multi on/off.



**NEW SERIES**

**42V VOLTAGE**

**6A CURRENT**

**246W POWER**

**OUTPUT <2mV NOISE**

TEST BRIDGE

TOUCH CONTROL

SELV

### HIGH CURRENT POWERFLEX POWER SUPPLIES

5

#### QPX Series

- ▶ Single or dual output.
- ▶ Analogue remote control.
- ▶ Smart tracking modes.
- ▶ Logic in/out control.



**NEW MODEL**

**80V VOLTAGE**

**HIGHER CURRENT**  
50A

**HIGHER POWER**  
1200W

**OUTPUT <1mV NOISE**

TEST BRIDGE

TOUCH CONTROL

### POWERFLEX POWER SUPPLIES

7

#### CPX Series

- ▶ Single or dual output.
- ▶ Analogue control.
- ▶ Tracking and on/off sync.



**60V VOLTAGE**

**HIGHER CURRENT**  
20A

**HIGHER POWER**  
840W

**OUTPUT <1mV NOISE**

TEST BRIDGE

### ADVANCED LINEAR POWER SUPPLIES

18

#### PL Series

- ▶ Single, dual or triple output.
- ▶ Low I range, 0.1 mA.
- ▶ Tracking and parallel modes.
- ▶ V-Span.



**60V VOLTAGE**

**8A CURRENT**

**228W POWER**

**OUTPUT <0.4mV NOISE**

TEST BRIDGE

### HIGH VOLTAGE POWER SUPPLIES

6

#### PLH Series

- ▶ Single output.
- ▶ Low I range, 0.1 mA.
- ▶ Analogue remote control.
- ▶ V-Span.



**HIGHER VOLTAGE**  
250V

**MAXIMUM CURRENT**  
0.75A

**94W POWER**

**OUTPUT <2mV NOISE**

TEST BRIDGE

### PRECISION LINEAR POWER SUPPLIES

12

#### QL Series

- ▶ Single or triple output.
- ▶ Digital control.
- ▶ Link mode.



**56V VOLTAGE**

**MAXIMUM CURRENT**  
5A

**242W POWER**

**OUTPUT <0.35mV NOISE**

TEST BRIDGE

### VERSATILE POWER SUPPLIES

4

#### TSX Series

- ▶ Single output.
- ▶ Analogue or digital control.
- ▶ Power meter.
- ▶ Silent fan-free cooling.



**35V VOLTAGE**

**HIGHER CURRENT**  
20A

**360W POWER**

**OUTPUT <1mV NOISE**

TEST BRIDGE

### LINEAR POWER SUPPLIES

10

#### EL Series

- ▶ Single, dual or triple output.
- ▶ Analogue control.
- ▶ Silent fan-free cooling.



**56V VOLTAGE**

**MAXIMUM CURRENT**  
5A

**130W POWER**

**OUTPUT <1mV NOISE**

### EFFICIENT POWER SUPPLIES

9

#### EX Series

- ▶ Single, dual or triple output.
- ▶ Analogue control.
- ▶ Silent fan-free cooling.



**HIGHER VOLTAGE**  
150V

**HIGHER CURRENT**  
20A

**HIGHER POWER**  
420W

**OUTPUT <2mV NOISE**

## Waveform Generators

### HIGH PERFORMANCE FUNCTION / ARB / PURE PULSE WAVEFORM GENERATOR

#### TGD4254

- ▶ Quad output.
- ▶ 125 MHz Pulse.
- ▶ Pulse train - 10 unique pulses with all variable pulse parameters.
- ▶ Precise multi channel control.
- ▶ Dedicated sync per channel.
- ▶ Pause and play waveforms.



|                  |                          |
|------------------|--------------------------|
| COMING SOON      | 1μHz TO 250MHz           |
| TOUCH CONTROL    | 16 BITS                  |
| 0.1ns RESOLUTION | 1GS/s                    |
| 64M POINTS       | VARIABLE EDGE 2ns TO 1Ks |

TEST BRIDGE WFM

### DDS FUNCTION GENERATOR

#### ATG1005

- ▶ Single output.
- ▶ Dedicated sync output.
- ▶ Linear/logarithmic sweep with single or dual slope.
- ▶ FSK and PSK modes.

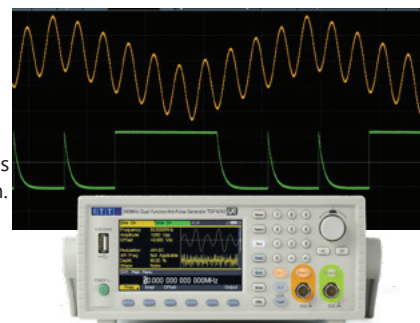
|                 |
|-----------------|
| NEW MODEL       |
| 1mHz TO 5MHz    |
| TOUCH CONTROL   |
| TEST BRIDGE WFM |



### HIGH FREQUENCY FUNCTION / PULSE / ARB GENERATOR

#### TGF4000 Series

- ▶ Dual output.
- ▶ 100 MHz pulse.
- ▶ Modulation, sweep and burst modes.
- ▶ SUM, PRBS, harmonics and noise modulation.



|                           |
|---------------------------|
| 1μHz TO 240MHz            |
| 16 BITS                   |
| 0.1ns RESOLUTION          |
| 800MS/s                   |
| VARIABLE EDGE 3ns TO 800s |
| 8K POINTS                 |

TEST BRIDGE WFM

### DIGITAL PURE PULSE GENERATOR

#### TGP3100 Series

- ▶ Single or dual output.
- ▶ 60 ps RMS trigger to output uncertainty.
- ▶ Modulation, sweep and burst modes.
- ▶ Pulse, double pulse, user pattern, PRBS, PWM, PDM, SPDM modulations.



|                           |
|---------------------------|
| 1mHz TO 50MHz             |
| 16 BITS                   |
| 800MS/s                   |
| VARIABLE EDGE 5ns TO 800s |
| 0.1ns RESOLUTION          |

TEST BRIDGE WFM

### DDS FUNCTION/ ARB GENERATOR

#### TG501x/251x Series

- ▶ Single or dual output.
- ▶ Modulation, sweep and burst modes.



|                           |
|---------------------------|
| 1μHz TO 50MHz             |
| 14 BITS                   |
| 125MS/s                   |
| VARIABLE EDGE 8ns TO 40μs |
| 256K POINTS               |

TEST BRIDGE WFM

## Waveform Amplifier

### ANALOGUE PULSE GENERATOR

#### TGP110

- ▶ Pulse, Square, double pulse, delayed pulse.
- ▶ Variable pulse width and delay.
- ▶ Fixed trigger to output delay.
- ▶ Dedicated Sync out and Aux out.



10MHz

### WIDEBAND AMPLIFIER

#### WA301

- ▶ 50Ω and 600Ω outputs.
- ▶ DC to 1 MHz bandwidth.
- ▶ 0 to +20 dB gain.



|         |
|---------|
| 1MHz    |
| 30v P-P |

### INFORMATION KEY

|          |               |                                 |
|----------|---------------|---------------------------------|
| ↑ HIGHER | 1             | Number of models in the series. |
|          | TOUCH CONTROL | Touch Screen.                   |
|          | TEST BRIDGE   | Remote software available.      |
|          | SELV          | Separated extra-low voltage.    |

The maximum specifications per series are shown. Colour variation from bottom to top represent the lowest to highest available.

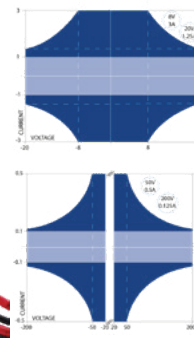
## Source Measure Units

### HIGH PERFORMANCE SMU

2

#### SMU4000 Series

- ▶ 4-quadrant source, sink and measure.
- ▶ 0.1  $\mu$ V & 100 fA resolution.
- ▶ Continuous or pulsed high speed outputs with linear or logarithmic sweeps and arb lists.
- ▶ Advanced load modes.
- ▶ Tolerance band sorting.
- ▶ 210 V and 21 V models available.
- ▶ Link two SMUs together to perform simultaneously with SMU link.



**SELV**

**TOUCH CONTROL**

**TEST BRIDGE SMU**

**210V VOLTAGE**

**6 1/2 DIGIT**

**MAXIMUM 3.15A CURRENT**

**2 OR 4 WIRE**

**25W POWER**

**200 $\mu$ s MEASUREMENTS**

**POWER FLEX REGULATION**

**0.015% ACCURACY**

## DC Electronic Loads

### COMPACT DIGITAL ELECTRONIC LOAD

#### ALD1120

- ▶ Variable slew rate.
- ▶ High and low pulse.
- ▶ Linear/logarithmic sweeps.
- ▶ Battery discharge and capacity measurements.



**COMING SOON**

**HIGHER 120V VOLTAGE**

**HIGHER 24A CURRENT**

**120W POWER**

**CC CR CV CP**

**TOUCH CONTROL**

**TEST BRIDGE**

### HIGH CURRENT DC LOAD

2

#### LD400 Series

- ▶ Built in transient generator.
- ▶ Variable dropout.
- ▶ Battery test feature.



**80V VOLTAGE**

**HIGHER 80A CURRENT**

**400W POWER**

**CC CR CV CP**

**TEST BRIDGE**

### CAT II HIGH VOLTAGE DC LOAD

#### LDH400P

- ▶ Built in transient generator.
- ▶ Variable dropout.
- ▶ Live PFC test 300V, CAT II.
- ▶ Current monitor output.



**HIGHER 500V VOLTAGE**

**16A CURRENT**

**400W POWER**

**CC CR CV CP**

**CAT II 300V**

**TEST BRIDGE**

## Digital Multimeters

### DIGITAL MULTIMETER

#### ADM1055

- ▶ Ax+B, limits, % deviation and power.
- ▶ 0.02% basic accuracy
- ▶ Analogue style bar chart, histogram and statistics.



**NEW MODEL**

**600V DC**

**10A CURRENT**

**5 1/2 DIGIT**

**2 WIRE**

**TOUCH CONTROL**

**TEST BRIDGE**

### ADVANCED DIGITAL MULTIMETER

2

#### 1908 Series

- ▶ Dual display and measurement.
- ▶ Battery or AC line power.
- ▶ 0.02% basic accuracy.
- ▶ Frequency, capacitance and temperature.
- ▶ Auto and manual ranging.
- ▶ USB standard.

| Function   | Ranges                          | Best Resolution |
|------------|---------------------------------|-----------------|
| DC V       | (5) 100 mV - 1000 V             | 1 $\mu$ V       |
| AC V       | (5) 100 mV - 750 V              | 1 $\mu$ V       |
| Resistance | (6) 100 $\Omega$ - 10M $\Omega$ | 1m $\Omega$     |
| DC I       | (3) 10 mA - 10 A                | 0.1 $\mu$ A     |
| AC I       | (3) 10 mA - 10 A                | 0.1 $\mu$ A     |



**1kV DC**

**10A CURRENT**

**5 1/2 DIGIT**

**2 OR 4 WIRE**

**TEST BRIDGE**

## Frequency Counters

### HIGH ACCURACY FREQUENCY COUNTER

2

#### TF900 Series

- ▶ Battery or AC line power.
- ▶ Frequency, period, pulse width and totalise modes.
- ▶ 3 or 6GHz RF input.



**6GHz**

**DC TO 125MHz**

**10 DIGIT**

**1ppm TCXO**

**TEST BRIDGE**

### HANDHELD FREQUENCY COUNTER

#### PFM3000

- ▶ Battery operation.
- ▶ Handheld.
- ▶ Frequency or period display.
- ▶ Long battery life.



**3GHz**

**3Hz MINIMUM**

**8 1/2 DIGIT**

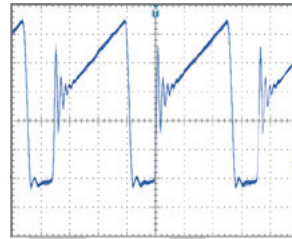
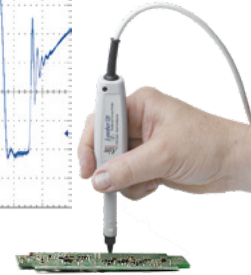
## Current Probe

### INNOVATIVE CURRENT AND MAGNETIC FIELD MEASUREMENT

#### I-prober 520

- ▶ Non-intrusive current measurement by insulated probe.
- ▶ Observe current flow in PCB tracks, component leads or ground planes.
- ▶ Calibrated magnetic field measurement.
- ▶ Clip-on concentrator for measuring current in cables.
- ▶ Low noise figure equivalent to <6mA rms at full B/W.
- ▶ Connect to any oscilloscope.

**I-prober 520**  
Positional Current Probe  
PCB Track - Touch & Measure



DC  
TO  
5MHz

10mA  
TO  
20App

TOUCH  
&  
MEASURE

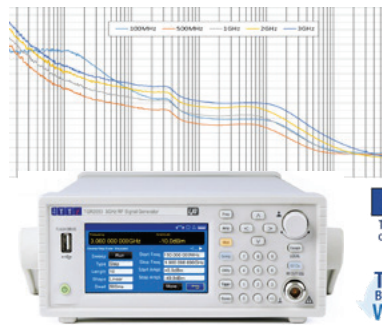
CAT II  
300V

## RF Signal Generators

### HIGH ACCURACY AND STABILITY SIGNAL GENERATOR

#### TGR205x Series

- ▶ Flatness  $\pm 0.15$  dB typ.
- ▶ Accuracy  $\pm 0.3$  dB typ.
- ▶ Harmonics <40 dBc @ 13 dBm output.
- ▶ Residual spurs up to 70 dBc typ.
- ▶ External and Internal digital and analogue input.
- ▶ Digital and analogue modulations.



150kHz  
TO  
3GHz

+13dBm  
TO  
-127dBm

<5ms  
SETTLING  
TIME

VSWR  
1.5:1  
TYP.



### HIGH FREQUENCY RF SIGNAL GENERATOR

#### TGR6000

- ▶ High speed sweep.
- ▶ Low phase noise.



10MHz  
TO  
6GHz

+7dBm  
TO  
-110dBm

<8ms  
SETTLING  
TIME

## Spectrum Analyzers

### TRUE HANDHELD REAL-TIME SPECTRUM ANALYZER

#### PSA Series 4

- ▶ 37.5 us min. duration for 100% POI.
- ▶ 80000 FFTs per second.
- ▶ Triggering on frequency masks
- ▶ Waterfall and Heatmap displays.
- ▶ Choice of FFT length, detectors and window functions.



NEW  
MODEL

1MHz  
TO  
2.7GHz

10.8MHz  
REAL TIME  
BW

-131dBm  
DANL

VSWR  
1.4:1  
TYP.

TEST  
BRIDGE  
PSA

+23dBm  
MAX.

### TRUE HANDHELD SPECTRUM ANALYZER

#### PSA Series 5

- ▶ Advanced digital processing.
- ▶ Harmonics <60 dBc, spurs <60 dBc.
- ▶ Residual spurs <70 dB below ref level.
- ▶ IP3 <60 dBc.
- ▶ Scan mode.



10MHz  
TO  
6GHz

-120dBm  
DANL

VSWR  
1.5:1  
TYP.

TEST  
BRIDGE  
PSA

+25dBm  
MAX.

### INFORMATION KEY

- HIGHER  
↑
- SINK  
SOURCE  
FREQUENCY
- 1 Number of models in the series.
- TOUCH CONTROL Touch Screen
- TEST BRIDGE Remote software available
- SELV Separated extra-low voltage.

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