

## Source Meter SMU Instrument (Conductivity measurements along with sample holder)

Model: SMU 2612 B (Dual SMU)

Make :Keithley Instruments

4 quadrant source/measure with 6½ digit resolution

Current Max/Min: 1.5A DC, 10A pulse/100fA

Voltage Max/Min: 200V/100nV

Current measurement 100 nA-10 A with minimum resolution 100 fA

Voltage measurement: 200 mV-200 V with minimum resolution 100 nV

Built-in “Plug & Play” software etc

TEMPERATURE COEFFICIENT (0°–18°C and 28°–50°C) 2:  $\pm(0.15 \times \text{accuracy specification})/^\circ\text{C}$ .

MAXIMUM OUTPUT POWER AND SOURCE/SINK LIMITS 3: 40.4W per channel maximum.  $\pm 40.4\text{V}$  @  $\pm 1.0\text{A}$ ,  $\pm 6.06\text{V}$  @  $\pm 3.0\text{A}$

Four quadrant source or sink operation.

VOLTAGE REGULATION: Line: 0.01% of range

Load:  $\pm(0.01\%$  of range + 100 $\mu\text{V})$ .

NOISE 10Hz–20MHz: <10mA.

PULSE SPECIFICATIONS

MINIMUM PROGRAMMABLE PULSE WIDTH : 100 $\mu\text{s}$ .

PULSE WIDTH PROGRAMMING RESOLUTION: 1 $\mu\text{s}$ .

PULSE WIDTH PROGRAMMING ACCURACY 15:  $\pm 5\mu\text{s}$ .

PULSE WIDTH JITTER: 2 $\mu\text{s}$  (typical)

Temperature-resistivity measurement set up (~500 deg. C) with temperature controller.

Including computer interface and software.