Specifications

Note: All specifications apply to the unit after a temperature stabilization time of 30 minutes over an ambient temperature range of 23 °C ± 5 °C.

	BAS	3100
Input		
Voltage		0.5 V to 80 V
Power		200 W maximum (dissipated by internal load)
Settings	VV	
Current	DC	0.5 A to 3 A (dissipated by internal load)
	Modulating AC Current	50 mArms to 300 mArms (10% of DCA typical)
Modulating Frequency	Range	0.05 Hz to I0 kHz
	Resolution (Auto)	0.001 Hz to 0.1 Hz
	Accuracy	0.01% of setting
Displayed Parameters		
Primary		X, Z, V, I, Freq.
Secondary		Rs, Rp, Xs, Xp, Cs, Cp, Ls, Lp, Q, D, and θ
Measurements		
Voltage 4-wire	Range	0 V to 80 V
	Resolution	0.1 mV
	Accuracy (ACI = 0) (1)	0.05% of reading + 0.05% of full scale
DC Sink Current	Range	0 A to 3 A
	Resolution	0.1 mA
	Accuracy (ACI = 0) (1)	0.5% of reading + 0.1% of full scale
Resistance R Auto sampling interval (8 to 10 cycles) and auto range enabled	Displayed Digits	5 digits including sign
	Resolution	ΙμΩ
	Accuracy (10 Hz to 10 kHz)	$\pm (0.5\% \text{ of reading} + 5 \mu\Omega)$
Impedance Z Auto sampling interval (8 to 10 cycles) and auto range enabled	Displayed Digits	5 digits including sign
	Resolution	Ι μΩ
	Accuracy (10 Hz to 10 kHz)	±(0.5% of reading + 5 μΩ)
Phase Angle θ	Range	-180° to 180°
	Resolution	0.01°
	Accuracy	±0.3°
General		
AC Input		100 VAC to 240 VAC, 50/60 Hz
UUT Connector		4-terminal banana jack
I/O Interfaces		LAN, USB (Virtual COM), RS232
Operating Temperature		32° F to 104° F (0° C to 40° C)
Storage Temperature		14° F to 122° F (-10° C to 50° C)
Dimension (W x H x D)		8.5 " x 3.5" x 14.6" (215 x 90 x 370 mm)
Weight		9.9 lbs (4.5 kg)
Software		Bundled software for fixed or frequency sweep, Nyquist and Bode plo
Warranty		3 Years
Standard Accessories		Power cord, kelvin clip test leads, calibration certificate, calibration test fixture (TLC8I)