Product Comparison Charts

Digital!

Item	Model 5140	Model 6305/20/40	Model 350c-5/20/40	Model 7405/20/40	Model 8805/20/40
System Frequency Range:	1Hz to 40MHz (Sine wave)	10uHz to 5/20/40MHz (Square wave to 1MHz)	10uHz to 5/20/40MHz (Square wave to 1MHz)	10uHz to 5/20/40MHz (Square wave to 1MHz)	10uHz to 5/20/40MHz (Square wave to 1MHz)
Generator Waveforms	sine	sine, square	sine, square	sine, square	sine, square
Generator Amplitude AC	10mV to 10V	1mV to 10Vpk	1mV to 10Vpk	1mV to 10Vpk	1mV to 10Vpk
Generator Amplitude DC	±10V, 10mV Steps	±10V, 10mV step	±10V, 10mV step	±10V, 10mV step	±10V, 10mV step
Generator modes	single Frequency, logarithmic, and linear sweep steps	single frequency, log/lin sweep, sweep with software controlled steps	single frequency, log/lin sweep, sweep with software controlled steps	single frequency, log/lin sweep, sweep with software controlled steps	single frequency, log/lin sweep, sweep with software controlled steps
Generator output config.	single-ended grounded	floating to ±600Vpk	floating to ±600Vpk	floating to ±600Vpk	floating to ±600Vpk
Oscillator "servo"	dynamically adjust output to maintain a constant input level through Venable software	software controlled dynamic amplitude monitoring and on-the-fly adjustment	software controlled dynamic amplitude monitoring and on-the-fly adjustment	software controlled dynamic amplitude monitoring and on-the-fly adjustment	software controlled dynamic amplitude monitoring and on-the-fly adjustment
Analyzer Channels	1, isolated, floating to ±600Vpk	2, isolated, floating to ±600Vpk	3, isolated, floating to ±600Vpk	4, isolated, floating to ±600Vpk	2, isolated, floating to ±600Vpk and digital interface port
Measurement Technique	narrowband DFT	narrowband DFT	narrowband DFT	narrowband DFT	narrowband DFT
Integration Method	1-9999 cycles 20msec -100Ksec time	1-9999 cycles 20msec -100Ksec time	1-9999 cycles 20msec -100Ksec time	1-9999 cycles 20msec -100Ksec time	1-9999 cycles 20msec -100Ksec time
Input coupling	dc with automatic offset cancellation	dc with automatic offset cancellation	dc with automatic offset cancellation	dc with automatic offset cancellation	dc with automatic offset cancellation
Input Range	10mV to 10Vpk Full Scale in 7 ranges, Auto-ranging	10mVpk to 500Vpk in 11 ranges	10mVpk to 500Vpk in 11 ranges	10mVpk to 500Vpk in 11 ranges	10mVpk to 500Vpk in 11 ranges
Max. Input	±100Vpk	500Vpk	500Vpk	500Vpk	500Vpk
Input Isolation: chassis	±600Vpk	±600Vpk	±600Vpk	±600Vpk	±600Vpk
Meas. Power Supply I/O Impedance	Yes with IOZ option, 50A or 100A	Yes with IOZ option, 50A or 100A	Yes with IOZ option, 50A or 100A	Yes with IOZ option, 50A or 100A	Yes with IOZ option, 50A or 100A
Display	Windows®-based graphics; scalable and easy to read gain/phase/impedance plots	Windows®-based graphics; scalable and easy to read gain/phase/impedance plots	Windows®-based graphics; scalable and easy to read gain/phase/impedance plots	Windows®-based graphics; scalable and easy to read gain/phase/impedance plots	Windows®-based graphics; scalable and easy to read gain/phase/impedance plots
Stability Analysis and loop optimization	Measurement, application specific software, menu-driven algorithms for flexible analysis, manipulation, and calculation of data (RLC, IOZ optional).	Proprietary K-Factor based, application specific software, menu-driven algorithms for flexible analysis, manipulation, and calculation of data (RLC, IOZ optional).	Proprietary K-Factor based, application specific software, menu-driven algorithms for flexible analysis, manipulation, and calculation of data (RLC, IOZ optional).	Proprietary K-Factor based, application specific software, menu-driven algorithms for flexible analysis, manipulation, and calculation of data (RLC, IOZ optional).	Proprietary K-Factor based, application specific software, menu-driven algorithms for flexible analysis, manipulation, and calculation of data (RLC, IOZ optional).
Other Software	N/A	N/A	N/A	N/A	Target processor supporting source code, plus examples for supported processors
OS Support	Windows® 7, 8, 10	Windows® 7, 8, 10	Windows® 7, 8, 10	Windows® 7, 8, 10	Windows® 7, 8, 10
Technical Support	Total system by factory engineers: hardware, software, applications	Total system by factory engineers: hardware, software, applications	Total system by factory engineers: hardware, software, applications	Total system by factory engineers: hardware, software, applications	Total system by factory engineers: hardware, software, applications
Warranty	Standard 12 month warranty, parts and labor; optional multi-year extended warranty available	Standard 12 month warranty, parts and labor; optional multi-year extended warranty available	Standard 12 month warranty, parts and labor; optional multi-year extended warranty available	Standard 12 month warranty, parts and labor; optional multi-year extended warranty available	Standard 12 month warranty, parts and labor; optional multi-year extended warranty available
Additional Measurement Options	Component test; I/O Impedance (to 100A), low-freq PFC, RLC, range of Bode Boxes	Component test; I/O Impedance (to 100A), low-freq PFC, RLC, range of Bode Boxes, Rack Mount Kit Available	Component test; I/O Impedance (to 100A), low-freq PFC, RLC, range of Bode Boxes, Rack Mount Kit Available	Component test; I/O Impedance (to 100A), low-freq PFC, RLC, range of Bode Boxes, Rack Mount Kit Available	Component test; I/O Impedance (to 100A), low-freq PFC, RLC, range of Bode Boxes, Rack Mount Kit Available
17025/Z540.1 Calibration	Factory NIST Calibration, 1/yr recommended but not necessary	Factory NIST Calibration or Z540.1, 1/yr recommended but not necessary	Factory NIST Calibration or Z540.1, 1/yr recommended but not necessary	Factory NIST Calibration or Z540.1, 1/yr recommended but not necessary	Factory NIST Calibration or Z540.1, 1/yr recommended but not necessary
PC Interface	USB 2.0, IEEE-488 standard	USB 2.0, IEEE-488 standard	USB 2.0, IEEE-488 standard	USB 2.0, IEEE-488 standard	USB 2.0, IEEE-488 standard
Power Requirements	90 to 264V, 48 to 62Hz, 30VA 24VDC, 24W (Min)	90 to 264V, 48 to 62Hz, 30VA	90 to 264V, 48 to 62Hz, 30VA	90 to 264V, 48 to 62Hz, 30VA	90 to 264V, 48 to 62Hz, 30VA
Physical description	9.8w x 9.8d x 3.2h", 4 Lbs.	17w x 10d x 3.5"h, 14lbs.	17w x 10d x 3.5"h, 14lbs.	17w x 10d x 3.5"h, 14lbs.	17w x 10d x 3.5"h, 14lbs.

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