

9830 Series Comparison Guide



	B&K Precision			Keysight		Chroma			
	9805	9832	9833	AC6803A	AC6804A	6520	6530	61504	61604
List price (base unit)	\$4,450	\$6,450	\$7,650	\$8,382	\$13,854	~ \$9500	~ \$10,350	~ \$12,350	~ \$7,150
AC Power (VA)	1500	2000	3000	2000	4000	2000	3000	2000	2000
AC Voltage (Vrms)	150 V / 300 V	150 V/300 V	150 V/300 V	135 V /270 V		150 V/300 V / Auto			
AC Current (Arms)	12 A	20 A / 10 A	30 A / 15 A	20 A / 10 A	40 A / 20 A	20 A / 10 A	30A / 15 A	16 / 8 A	
Frequency Range	45-500 Hz	45 - 1200 Hz		40 - 500 Hz		15 - 2000 Hz		15 - 1000 Hz	
DC, AC+DC	✗	✓		✓		✗		✓	
DC Voltage, Power	✗	± 212 V / ± 424 V 1000 W (9832), 1500 W (9833)		+190 V / +380 V 1600 W (AC6803A), 3200W (AC6804A)		✗		+212 V / +424 V, 1000 W	
Protection	OVP, OPP, OCP, OTP	OVP, OPP, OCP, OTP		OVP, OPP, OCP, OTP		OPP, OCP, OTP		OVP, OPP, OCP, OTP	
Measurements	Vrms, Irms, Ipeak, frequency, power factor, apparent power, true power	Vrms, Arms, Vdc, +Apk, -Apk, inrush current, frequency, power factor, apparent power, reactive power, true power, and crest factor		Vrms, Arms, Aapk, ApkH, frequency, Vdc, Adc, power factor, apparent power, reactive power, true power		Vrms, Arms, +Apk, -Apk, inrush current, frequency, power factor, apparent power, reactive power, true power, and crest factor		Vrms, Arms, Vdc, Adc, inrush current, frequency, power factor, apparent power, reactive power, peak power, true power, and crest factor	
Analog level control interface	✓ (standard)	✓ (standard)		✓ option AC68ALGU (\$610)		✓ option A650001 (~ \$900)		✓ option A615001 (~ \$925)	
Remote interfaces	LAN, USB, RS232 standard	USB, LAN, USBTMC, GPIB, RS232 standard		LAN and USB standard, GPIB and analog optional (\$488)		option A650001: GPIB,RS232 and analog control (~ \$900) LAN option not available		option A615001: RS232 & GPIB (~ \$925) + option A615002: LAN & USB (~\$540)	
Simulation Modes									
List mode	✓	✓		✗		✓		✓	✗
Sweep, vary voltage and frequency over time	✓	✓		✓		✓		✓	✗
Harmonic distortion	✓	✓		✗		✓		✓	✗
Custom / arbitrary waveform generation**	✗	✓ (standard)		✓ option AC68ALGU (\$610)		✗		✓ option A615001 (~\$925)	

Notes:
Keysight list prices as of 5-30-2017 on www.keysight.com
~ List price not published
** Requires an external arbitrary/function generator connected to the analog interface