California Instruments Lx Series

3000-18000 VA

3-18 kVA Programmable AC and DC Power Source / Analyzer

135-400 V

• Backward Compatible

Compatible with HP6834B & iL Series AC Sources Function & bus compatible with the Agilent HP6834B & California Instruments iL Series

- Three phase and Single phase modes Ideally suited for avionics and defense applications
- 3 kVA to 18 kVA Power Levels
 Match power source and cost to application requirements
- Arbitrary Waveform Generator
 Test products for harmonics susceptibility
- Built-in Power Analyzer
 Performs voltage and load current harmonic analysis and waveform acquisition
- Standard IEEE-488, USB & RS232
 Remote control interface for ATE system integration included

Integrated System

The Lx Series represents a modern AC power source that addresses increasing demands on test equipment to perform more functions at a lower cost. By combining a flexible AC power source with a harmonic power analyzer, the Lx Series systems are capable of handling applications that would traditionally have required multiple instruments.

The sleek integrated approach of the Lx Series avoids the cable clutter that is commonly found in AC test setups. All connections are made internally and the need for external digital multimeters, power harmonics analyzer and current shunts is completely eliminated.

Using a state of the art Digital Signal Processor in conjunction with precision A/D converters, the Lx Series provides more accuracy and resolution than can be found in most dedicated harmonic power analyzers. Since many components in the Lx Series are shared between the AC source and the power analyzer, the total cost of the integrated system is less than the typical cost of a multiple unit system.

Easy To Use Controls

The Lx Series is completely microprocessor controlled and can be operated from a simple front panel keypad. An analog control located next to the backlit alphanumeric LCD display allows output voltage and frequency to be slewed up or down dynamically. The control employs a dynamic rate change algorithm that combines the benefits of precise control over small parameter



changes with quick sweeps through the entire range. A keypad makes precise entries simple.

Applications

With precise output regulation and accuracy, high load drive current, multi or single phase mode and built-in power analyzer measurement capabilities, Lx Series AC source/analyzers address many application areas for AC power testing. Additional features, like line arbitrary waveform generation and available DO 160, MIL 704, or Airbus test standards, make the Lx Series a good choice for avionics or defense applications. All Lx Series AC sources are equipped with IEEE-488 (GPIB), USB and RS232C remote control interfaces and support SCPI command language programming. An ethernet interface option is available.

HP6834B Compatibility

The Lx Series offers functional and bus compatibility with the Agilent HP6834B AC power sources as well as the CI iL Series AC power sources and may be used in existing test systems without the need to modify program code

Standard Waveforms

The Lx Series provides three standard waveforms that are always available for output. The standard waveforms are:

- Sinewave for normal AC applications.
- Squarewave for special applications.
- Clipped Sinewave Simulates THD leveLx to test for harmonic distortion susceptibility.

In addition to these standard waveforms, user defined waveform can be downloaded over the bus.

0-132 A

191

%	208	230	400
>		230	



Lx Series

Lx Series - AC Transient Generation Harmonic Waveform Generation

Using the latest DSP (Digital Signal Processing) technology, the Lx Series controller is capable of generating harmonic waveforms to test for harmonics susceptibility of a unit under test. With the help of the supplied Windows Graphical User Interface program, defining harmonic waveforms is as easy as specifying the relative amplitude and phase angle for each of up to 50 harmonics. The waveform data points are generated and downloaded by the GUI to the AC source through either IEEE-488 or RS232C bus and remain in non-volatile memory. Up to twelve waveforms can be stored and given a user defined name for easy recall.

Arbitrary Waveform Generation

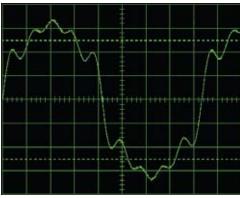
Using the provided GUI program or custom software, the user also has the ability to define arbitrary waveform data. Complex AC voltage anomalies can be simulated this way. The GUI program provides a catalog of custom waveforms and also allows real-world waveforms captured on a digital oscilloscope to be downloaded to one of the AC source's waveform memories. Downloaded waveforms are retained in non-volatile memory for recall over the bus or from the front panel. User defined waveform names make it easy to recall the desired waveform when needed.

Lx Series - Configuration Options Transient Programming

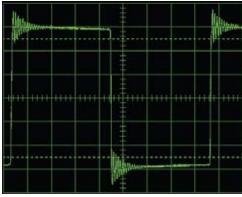
To simulate common line disturbance occurrences, the Lx Series offers a list of transient steps. These steps can be programmed from the front panel or downloaded over the interface using the GUI program supplied. The GUI allows libraries of commonly used line disturbances to be created on disk for quick recall. Once downloaded, the transient program can be executed from the PC or from the front panel. AC transient generation allows the effect of rapid changes in voltage, frequency, phase angle and waveform shape on the unit under test to be analyzed. The combination of transients and user defined arbitrary waveforms creates a powerful test platform for AC powered products.

Lx Series - Measurement and Analysis

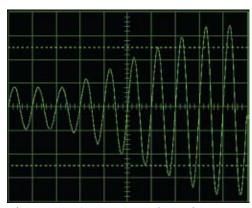
The Lx Series measurement system is based on real-time digitization of the voltage and current waveforms using a 4K sample buffer. The digitized waveform data is processed by a Digital Signal Processor to extract conventional load values such as rms voltage, rms current, real and apparent power. The same data is also used to perform Fast Fourrier Transformation (FFT) to extract the harmonic amplitude and phase angle of up to 50 harmonics.



Harmonic waveform, Fund., 3rd, 5th, 7th and 9th.



Simulation of severe ringing on the output of a UPS.



Voltage sweep transient causes output voltage to change at a programmed rate.

Standard Measurements

The following standard measurements are available from the front panel or via the bus:

- Frequency and Phase
- Voltage (rms)
- Current(rms) and Peak Current
- Crest Factor
- Neutral Current (rms)
- Real Power and Apparent Power
- Power Factor

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Advanced Measurement Functions

In addition to standard load parameters, the Lx Series is capable of measuring voltage and current amplitude and phase harmonics up to the 50th harmonic (for fundamental frequencies up to 250 Hz). Total harmonic distortion of both voltage and current is also available. Harmonic analysis data can be displayed on the front panel display or on the PC using the GUI program. The GUI can also be used to save and print harmonics data in tabular, bar graph or time domain formats. The acquired voltage and current timedomain waveforms for each output phase can be displayed using the GUI program. Waveform displays on the PC include voltage and current combined, three phase voltage, three phase current and true power. The time-domain data is aLxo available for transferr to a PC through IEEE-488, USB, RS232C, or Ethernet (option) when using custom software.

Diagnostics Capability

The AC Source can perform a self test and report any errors. The self test will run until the first error is encountered and terminate. The response to the self test query command will either be the first error encountered or 0 if no error was found. (Self test passed).

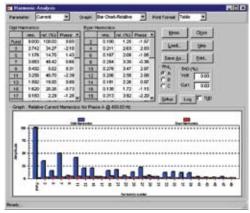
Windows Instrument Control Software

A Windows Vista/2000/XPTM compatible Instrument Control Software (GUI) offers a soft front panel interface for operation from a PC. The following functions are available:

- Steady state output control (all parameters).
- Create, run, save and print transient programs.
- Generate and save harmonic waveforms.
- Generate and save arbitrary waveforms.
- Download data from a digital storage oscilloscope.
- Measure and log standard measurements.
- Capture and display Voltage and Current waveforms.
- Measure, display, print and log harmonic voltage and current measurements.



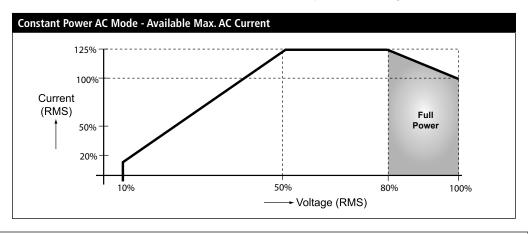
Standard measurements for all phases



Relative Current Harmonics shown in table and chart



Soft front panel control through Windows GUI.



Lx Series

Output												
Maximum Power per phase	3000Lx: 1 phase	3000Lx: 1 phase: 3000 VA, 3 phase: 1000 VA; 4500Lx: 1 phase 4500 VA, 3 phase 1500 VA; 6000Lx: 1 phase 5770 VA, 3 phase: 1923 VA										
Power factor	0 to unity at full	0 to unity at full output VA										
Voltage Ranges	Range V L	Range V Low V High VA Programming Resolution 100 mV										
	AC 0-1	50V 0-300V		ad Regulat			0.1 % FS					
	Line Regulation < 0.02 % for 10 % line characters.							nge				
Programming Accuracy (25°C ±5°C	J	Voltage (rms): \pm (0.05% + 0.25) V from 5.0 V to FS; Frequency: \pm 0.025 45 Hz - 819.1 Hz, \pm 0.7 % > 819.1 Hz; Phase: \pm 1° 45-100 Hz, \pm (1° + 1°/kHz) 100 Hz-1kHz										
Frequency Range	17 Hz - 1000 Hz	17 Hz - 1000 Hz (see -HF option for higher output frequencies)										
Frequency Resolution	0.01 Hz at < 81.	0.01 Hz at < 81.9 Hz, 0.1 Hz at 82.0 to 819.1 Hz, 1 Hz at > 819 Hz										
Max RMS Current	V Range V high	V low < At	Full Power	Model	3000Lx-3 Ø	3000Lx-1 Ø	4500Lx-3 Ø	4500Lx-1 Ø	6000Lx-3 Ø	6000Lx-1 Ø		
	-3 3 ø 64 A	12.8 A At F	Voltage >	V Low	6.6 A	20.0 A	10.0 A	30.0 A	19.2 A	38.4 A		
	-1 1ø 19.2 A	38.4 A		V High	3.3 A	10.0 A	5.0 A	15.0 A	6.4 A	12.8 A		
	Note: Constant power	er mode on 3000Ls	and 4500Ls prov	ı ovides increas	ed current at red	ıced voltage; 6	ı 000Ls provides n	ı naximum voltage	!			
Current Limit	Programmable	from 0 Amp	to maximu	ım currer	nt for selecte	d range						
Peak Current	3000Lx: 5.7 X (lr	•					e): 6000Lx: 3	X (Irms @ ful	l scale voltage	2)		
Output Noise	100mV rms typ.		3			<u> </u>	-,,			·		
Harmonic Distortion	< 1% (at full sca	•	•)								
Isolation Voltage	300 V rms outpu		colotive loday	,								
Output Relay	Push button cont		controlled ou	itnut relav								
Input	1 usil buttoil coll	lioned and bus	controlled ou	ліриі тетау								
Voltage	ModeLx 3000Lx, ModeLx 6000Lx, Notes: 1. Input must	12000Lx, 1800	00Lx: Standar	rd 208-230) + 10% VAC	(L-L, 3 Phase	e)					
Line Current (rms per phase)	Model 30	00Lx 3000L	(1Phase)	4500Lx	6000Lx (@ 2	ıl (V80	nrush Current	@ 180	-254 V: 50 A	peak		
	187 VLL 1	9 A 3	2 A	31 A	38 A	(1	Per phase):	@ 360	-440 V: 83 A	peak		
	360 VLL 1	0 A	n/a	16 A	n/a	L	ine Frequency	<i>t</i> : 47-44) Hz			
 Efficiency	75% typical											
Power Factor	0.6 typical											
Hold-up Time		- "										
	At least 10 ms											
System	At least 10 ms											
•		ete instrument :	setups / Tran	nsient List:	100 transient	steps per lis	t (SCPI mode) or 16 transi	ent registers (APE mode)		
Storage	Setup: 16 comple		<u> </u>									
Storage Trigger Input/Output			<u> </u>									
Storage Trigger Input/Output Protection	Setup: 16 comple Input: Triggers m	easurements or	transient ste	eps - SMA	connector: 10	C pull-up	/ Output: S	MA Connecto	or: HCTTL out	out		
Storage Trigger Input/Output Protection Overload/Temp/Voltage	Setup: 16 comple Input: Triggers m Overload: Consta	easurements or	transient ste	eps - SMA (ge mode; (connector: 10 Over temperat	C pull-up ure: Automa	/ Output: S	MA Connecto	or: HCTTL outp	but hutdown		
Storage Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion	Setup: 16 comple Input: Triggers m	easurements or	transient ste	eps - SMA (ge mode; (connector: 10 Over temperat	C pull-up ure: Automa	/ Output: S	MA Connecto	or: HCTTL outp	but hutdown		
Storage Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion Measurement	Setup: 16 comple Input: Triggers m Overload: Consta	easurements or ant current or co 81-2, EN50082	transient ste onstant voltag -2, CE, EMC,	ge mode; (and safety	connector: 10 Over temperat y mark require	<pre>c pull-up ure: Automa ments / R</pre>	Output: S tic Shutdown	MA Connector; Over voltagen: CISPR 11,	or: HCTTL outp e: Automatic s Group1, Class	hutdown A		
Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion Measurement Measurements - Standard	Setup: 16 comple Input: Triggers m Overload: Consta	easurements or	transient ste	ge mode; (and safety	connector: 10 Over temperat	<pre>c pull-up ure: Automa ments / R</pre>	Output: S tic Shutdown	MA Connecto	or: HCTTL outp	but hutdown		
System Storage Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion Measurement Measurements - Standard (AC Measurements)	Setup: 16 completed input: Triggers m Overload: Constated in IEC1010, EN500 Parameter Range	easurements or cant current or cant current or cant current or cant and current or cant and can	transient ster constant voltage -2, CE, EMC, Phase 45-10	ge mode; (and safety	connector: 10 Over temperat y mark require	<pre>c pull-up ure: Automa ments / R</pre>	Output: S tic Shutdown IF Suppressio	MA Connector; Over voltagen: CISPR 11,	e: Automatic s Group1, Class	hutdown A		
Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion Measurement Measurements - Standard	Setup: 16 completed input: Triggers m Overload: Constated in IEC1010, EN500 Parameter Range	easurements or cant current or cant current or cant east 2, EN50082 Frequency 45-81.91 Hz	transient ster constant voltage -2, CE, EMC, Phase 45-10	ge mode; (and safety e	Over temperat y mark require Voltage (AC)	Current	Output: S tic Shutdown IF Suppressio	MA Connector; Over voltagon: CISPR 11,	e: Automatic s Group1, Class Apparent Power	hutdown A Power Factor		
Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion Measurement Measurements - Standard	Setup: 16 comple Input: Triggers m Overload: Consta IEC1010, EN500 Parameter Range Accuracy* (±) 1 ø mode (-1)	easurements or cant current or cant current or cant current or cant and current or cant and can	onstant voltage -2, CE, EMC, Phase 45-10 100-1	ge mode; (and safety e 00 Hz 1000 Hz	Over temperat y mark require Voltage (AC)	Current O-50 A O.1% +	/ Output: S tic Shutdown IF Suppressio (AC rms) Re 0- 150 mA 0.	MA Connector; Over voltagen: CISPR 11, eal Power 6 kW	e: Automatic s Group1, Class Apparent Power 0-6 kVA	hutdown A Power Factor 0.00-1.00		
Trigger Input/Output Protection Overload/Temp/Voltage Regulatory/RFI Suppresion Measurement Measurements - Standard	Setup: 16 comple Input: Triggers m Overload: Consta IEC1010, EN500 Parameter Range Accuracy* (±) 1 ø mode (-1) 3 ø mode (-3)	easurements or cant current or cant current or cant easy. EN50082 Frequency 45-81.91 Hz 82.0-819.1 Hz > 819 Hz	pnstant voltage -2, CE, EMC, Phase 45-10 100-1	ge mode; (and safety e	Over temperat y mark require Voltage (AC)	Current 0-50 A	/ Output: S tic Shutdown IF Suppressio (AC rms) Re 0- 150 mA 0. 50 mA 0.	MA Connector; Over voltagen: CISPR 11, eal Power	e: Automatic s Group1, Class Apparent Power 0-6 kVA	hutdown A Power Factor 0.00-1.00		

Note: Specifications are subject to change without notice. Specifications are warranted over an ambient temperature range of 25°± 5° C. Unless otherwise noted, specifications are per phase for a sinewave with a resistive load and apply after a 30 minute warm-up period. For three phase configurations, all specifications are for L-N. Phase angle specifications are valid under balanced load conditions only.

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Remote Control											
IEEE-488 Interface (option)	IEEE-488 (GPII	IEEE-488 (GPIB) talker listener. Subset: AH1, C0, DC1, DT1, L3, PP0, RL2, SH1, SR1, T6, IEEE-488.2 SCPI Syntax									
USB Interface & Ethernet	Version: USB 1	Version: USB 1.1; Speed: 460 Kb/s maximum / Ethernet Interface (Optional): specify -LAN option. 10BaseT, 100BaseT, RJ45									
RS232C Interface		Bi-directional serial interface; 9-pin D-shell connector. Handshake: CTS, RTS. Databits: 7 w/ parity, 8 w/o parity. Stopbits: 2. Baud rate: 9600 to 115200. Supplied with RS232C cable / Code and Format: SCPI; APE (option -GPIB)									
Physical Dimensions											
Dimensions (per chassis)	Height: 10.5"	Height: 10.5" (267 mm), Width: 19" (483 mm), Depth: 23.7" (602 mm) (depth includes rear panel connectors)									
Weight	Chassis: Net: 1	Chassis: Net: 193 lbs / 87.7 Kg, Shipping: 280 lbs / 127.3 Kg (for /2 or /3 model configurations multiply number of chassis).									
/ibration and Shock	Designed to m	Designed to meet NSTA project 1A transportation leveLx									
Air Intake/Exhaust	Forced air cool	Forced air cooling, side air intake, rear exhaust									
Femperature & Diagnostics	Temperature: (Temperature: Operating: 0 to 35° C, full power / Storage: -40 to +85° C; Diagnostics: Built-in self test available over bus (*TST)									
Rear Panel Connectors	Option). *9-pi	*Three phase AC input and output terminal block with safety cover. *IEEE-488 (GPIB) connector, USB connector, RJ45 connector (with -LAN Option). *9-pin D-Shell RS232C connector (RS232 DB9 to DB9 cable supplied). *Remote Inhibit (INH) and Discrete Fault Indicator (DFI). *Remote voltage sense terminal block. *Trigger In1 and Trigger Out1. *System interface connectors. *Auxiliary Output (Option -AX)									
Option -AX Specifications											
Option -AX	the 5 V for lam	ip power. 26 Volt-Accu	racy: ± 2%.	5 Vac unregulated outputs. Current capacity: 3 ARMS. /olt-Accuracy: ± 5%. Curren		•	ervo-synchro ex	citation, and			
Option -ADV Specifications											
Measurements - Harmonics	Parameter	Frequency Fundamer	ntal Harmon	ics Voltage		Current					
	Range	45-250 Hz / 0.09 -		Fundamental Harmoni	ics 2 - 50		al Harmonics 2	- 50			
	Accuracy* (±)	Accuracy* (±) 0.01% + 1 digit / 0.5% + 1 digit				0.5 A / 0.3% + 150 mA +0.3% /1 kHz					
	Resolution										
	* Accuracy specif	ications are in a percent of re	ading for singl	e unit in 3-phase mode.							
Vaveforms	Pre defined: Si	ne, Square, Clipped Use	er defined, 1	024 addressable data point	ts; Storage: 50 use	r waveforms,	non-volatile m	emory			
Pata Acquisition	Parameters: Vo	ltage, Current time dor	main, per ph	ase; Resolution: 4096 data	points, 10.4 usec	(1ø) or 31.25	usec (3ø) sam	pling interval			
Option -HV Specifications											
/oltage/Frequency Ranges	Low: 0-135 Vo 18000Lx: 45 F		equency: Wi	ith -HF option: 3000Lx, 450	OLx, 6000Lx: 45 H	z - 5000 Hz;	9000Lx, 12000)Lx, 13500Lx,			
Max RMS Current at Full Power				22.2 A, Low: 44.4 A; Note: 4500Lx, and max voltage fo		nodes on 300	OLx and 4500L	Х.			
Max RMS Current at FSVoltage				e: High 11.1 A, Low: 22.2 A 4.8 A; 1 Phase: High: 22.2		: High: 5.6, Lo	ow 11.1; 1 Pha	se: High: 16.7			
Option -EHV Specifications											
oltage/Frequency Ranges	Voltage: Low:	0-200 Volt; High: 0-400) Volt / Frequ	uency: With -HF option: 45 l	Hz - 5000 Hz						
Max RMS Current at Full Power				15.0 A, Low: 30.0 A; Note: 4500Lx, and max voltage fo		nodes on 300	OLx and 4500L	х.			
Max RMS Current at FS Voltage				e: High 7.5 A, Low: 15.0 A; 0.0 A; 1 Phase: High: 15.0		High: 3.8, Lov	v 7.5; 1 Phase:	High: 11.3 A			
Option -HF Specifications											
Measurements:	Parameter	Frequency	Phase	Voltage (AC)	Current (AC rms)	Real Power	Apparent Power	Power Factor			
< 2000 Hz: See standard Lx Specifications;	Range Accuracy* (±)	45 - 5000 Hz	< 2000 Hz > 2000 Hz	0-300 V < 1000 Hz / > 1000 Hz	0-50 A	0-5 kW	0-5 kVA	0.00-1.00			
> 2000 Hz: See table >		0.1% + 1 digit	0.5°	0.05% + 250 mV	0.5% + 150 mA	0.5% + 9 W	0.5% + 9 VA	0.03			
	3 ø mode (-3)	, ,	5°	0.1% + 0.1%/kHz +300MV	0.5% + 50 mA	0.5% + 3 W	0.5% + 3 VA	0.01			
		0.01 Hz / 0.1 Hz / 1 Hz		10 mV	1 mA	1 W	1 VA	0.01			
		* Accurac specifications are in % of reading and apply above 100 counts. For multi-chassis configurations, current, power range and accuracy specifications are times three. Power factor accuracy applies for PF > 0.5 and VA > 50% of max. Frequency measurement specification valid for output > 30 Vrms.									
E0 m\/rmc tunical /20 kH= to 4 MH=\					·						
50 mVrms typical (20 kHz to 1 MHz)		•		5000 Hz; - EHV: 45 Hz - 500	JU HZ						
Output Noise	250 mVrms ty	250 mVrms typical (20 kHz to 1 MHz)									

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Lx Series

Model ¹	Output Power	No of Out	Nom. Input Voltage²	
		-1	-3	
3000Lx	3 kVA	1	3	208-230 V
3000Lx-400	3 kVA	1	3	400 V
4500Lx	4.5 kVA	1	3	208-230 V
4500Lx-400	4.5 kVA	1	3	400 V
6000Lx	6 kVA	1	3	208-230 V
9000Lx/2	9 kVA	1	3	208-230 V
9000Lx/2-400	9 kVA	1	3	400 V
12000Lx/2	12 kVA	1	3	208-230 V
13500Lx/3	13.5 kVA	1	3	208-230 V
13500Lx/3-400	13.5 kVA	1	3	400 V
18000Lx/3	18 kVA	1	3	208-230 V

Note 1: The /2 or /3 designation indicates number of chassis.

Note 2: All input voltage specifications are for Line to Line three phase, delta or wye. Model 3000Ls (208 V input) can be operated on 230 V L-N single phase if needed.

HF Table Model	Max. Freq.
3000Lx	5000 Hz
4500Lx	5000 Hz
6000Lx	5000 Hz
9000Lx/2	2000 Hz
12000Lx/2	2000 Hz
13500Lx/3	2000 Hz
18000Lx/3	2000 Hz

Ordering Information Model Refer to table shown for model numbers and configurations. Specify number of output phases (-1 or -3) as part of model number, eg 4500Lx-1 or 4500Lx-3.		-ABD	Airbus Directive 0100.1.8 tests. [AC only]. Requires -ADV and use of Windows PC and included LxGui software.			
		-AMD	Airbus AMD24 Test			
Supplie	d with	-A350	Airbus Test Software			
User / Pro	ogramming Manual on CD-ROM,	-AIRB	Airbus A380, A350 & AMD24 package			
Software	e and RS232C serial cable.	-ABL	Emulates Elgar SL Series			
Options		-B787	Boeing 787 Test Software			
Input O -400	400 ±10% Volt Line to Line AC input. [Not available on 6000Ls, 12000Ls and 18000Ls Models]	-ADV	Advanced feature set. Adds arbitrary waveform generation and harmonic analysis of voltage and current.			
-480	480 ±10% (3 phase output only)	-GPIB	GPIB interface and APE programming language.			
Output -AX	Options Auxiliary outputs, 26 VAC, 5 VAC.	-LAN	Ethernet Interface.			
A/\	Limits upper frequency to 800 Hz.	-MB	Multi-box. Adds controller to auxiliary			
-HV	156/312 V output range.		chassis of multi-chassis systems.			
-EHV	200/400 V output range.	-MODE	Add phase mode selection for 3 models			
-HF	Extends upper frequency limit.	-L22	Locking Knobs.			
	See HF table.	-LKM	Clock and Lock Master			
-LF	Limits output frequency to 500 Hz.	-LKS	Clock and Lock Auxiliary			
Keypad	Options	-LNS	Line Sync.			
-RP LS style rotary knobs		-EXS	External Sync.			

Cabinet Options

Rackmount Slides. Recommended for -RMS rack mount applications.

C prefix Cabinet System. Installed and pre-wired in 19" cabinet.

Controller Options -160 RTCA/DO-160, Change 2, EuroCAE-14D [Section 16, AC only]

-704F Mil-Std 704 rev A - F

-704 Mil-Std 704 rev D and E test firmware.

[AC only]

Ontion Matrix

Option Matrix									
	HF	LF	HV	EHV	LKM	LKS	EXS	AX	
HF	-	х	0	0	х	х	0	х	
LF	х	-	0	0	0	0	0	0	
HV	0	0	-	х	0	0	0	0	
EHV	0	0	х	-	0	0	0	0	
LKM	х	0	0	0	-	х	0	0	
LKS	х	0	0	0	х	-	х	0	
EXS	0	0	0	0	0	х	-	0	
AX	Х	0	0	0	0	0	0	- 1	

Note 1: See option matrix

Note2:-LKS, -LNS and -EXS are mutually exclusive and with Ext Trig function.