



### IX series II

- AC, DC & AC+DC power source
- 3 kVA-15 kVA, single or 3 phase
- Multifunction instrument
- Drives loads from 0 to 1 power factor
- Arbitrary waveform generation
- Waveform Acquisition Capability
- Power Analysis

### Lx/Ls Series

- Programmable AC power source
- 3 kVA - 18 kVA
- Single or three phase output
- Arbitrary waveform generation
- Supports GPIB, RS-232, USB, and LAN



### Compact iX

- AC & DC power source & power analyzer
- 750 VA to 1500 VA, single phase output
- Arbitrary waveform generation
- Power Analysis
- Powerful instrument control
- Avionics test software

### P&RP Series

- Programmable portable power source
- 800 VA or 1250 VA output power
- Front & rear outputs
- 16 Hz to 500 Hz frequency range
- High peak current capability
- IEEE-488 & RS232C interface
- Analog controls & digital readouts



### EC1000S

- AC & DC power source & power analyzer
- 750 VA - 1 KVA
- Compact, light, and portable
- Large 5.7 LCD Screen
- Powerful Measurement & Sequencing Features

### MX Series

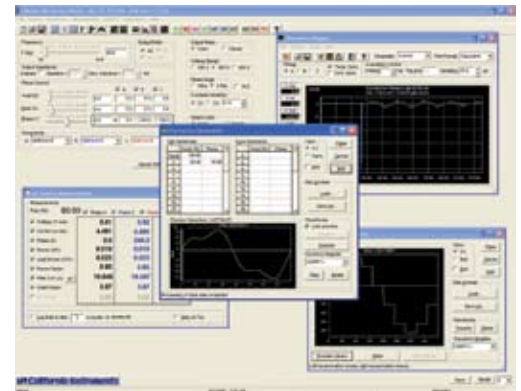
- AC, DC, AC+DC power system
- 15-135 kVA
- Single and/or three phase output
- Power analysis
- Arbitrary waveform generation
- IEEE-488 & RS232C interfaces
- Constant power mode
- Voltage waveform & distortion programming
- Available 150, 300 or 400 volt ranges in AC mode & 200 or 400 volt ranges in DC mode



### About California Instruments:

- Design & manufacturing of precision instrumentation products for over forty years
- Equipment built and tested in our modern facility located in the USA
- Strict quality control procedures ensure that all of our products meet or exceed published specifications
- World's leading supplier of controllable precision AC Power Sources used in a Variety of areas; including industrial, military, and commercial test and measurement applications
- Dedicated to total customer satisfaction
- ISO 9001:2000 certified
- Powerful instrument control software and avionics testing capabilities

### Instrument Control Software:



Windows® Instrument Control Software is included with all of our remotely programmable controllers\*. This software provides easy access to the power source's capabilities without the need to develop any custom code. The following functions are available:

- Steady state output control (all parameters)
- Create, run, save, reload & print transient programs
- Generate & save harmonic waveforms
- Generate & save arbitrary waveforms
- Download data from a digital storage oscilloscope
- Measure & log standard measurements
- Capture & display output voltage & current waveforms
- Measure, display, print & log harmonic voltage and current measurements
- Run **IEC61000-4-11**, **IEC61000-4-14** & **IEC61000-4-28** test programs
- Display IEEE-488 or RS232C bus traffic to & from the AC Source to help you develop your own test programs.

\* Requires PC running Windows Vista™, Windows XP™, or Windows 2000™

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**Programmable AC & DC Power Systems**



### CTS Series

- EN/IEC 61000-3-2: harmonics, including A14
- EN/IEC 61000-3-12: standard under development
- EN/IEC 61000-3-3: flicker, including amendment 1
- EN/IEC 61000-3-11: flicker measurement
- EN 61000-4-11: voltage dips & interruptions
- EN 61000-4-13: harmonics & interharmonics
- EN 61000-4-(14, 17, 27, 28, 29): EN/IEC 61000-4-14: AC voltage fluctuations; EN/IEC 61000-4-17: DC ripple; EN/IEC 61000-4-27: three phase AC voltage unbalance; EN/IEC 61000-4-28: frequency variations; EN/IEC 61000-4-29: DC voltage dips
- NPL certified compliance
- Programmable software package
- 1 & 3 Phase configurations available



### FCS Series

- Single- or multi-phase operation
- Full power line disturbance simulation available test for dropouts, transients & other power quality parameters
- Drives non-linear loads & high peak in-rush current input stages
- Full output power at 0 to 1 power factor, peak current up to 375 A at 18 kVA
- Simulate non-standard AC line conditions test to international power & avionics standard specifications
- Measure load parameters without additional equipment provide full measurement capability, including current harmonic analysis



### TL Series

- Programmable 45 Hz to 8000 Hz
- Dual voltage ranges
- Standard current measurement
- Optional measurements for peak current, voltage, real power, apparent power, power factor & crest factor (with option -OP1)
- Optional IEEE-488 & RS232C



### LD Series

- Multi-mode AC electronic load
- 3000 watt power dissipation
- Master / Auxiliary configurations
- 50 to 350 V, 45 Hz to 440 Hz
- Programmable crest & power factor
- Built-in measurements
- IEEE-488 & RS232C Interface



### CS Series

- Precision current source
- Single & Three phase mode
- 3 kVA to 18 kVA power levels
- Rreal world current profiles
- Built-in power analyzer
- Standard IEEE-448, USB & RS232C



### Argantix DC Line

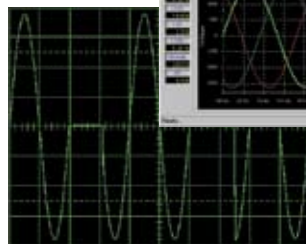
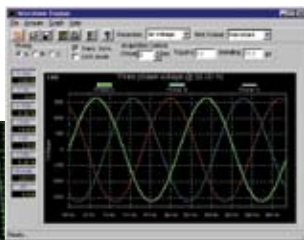
- Built-in transient programming
- Menu driven user-interface
- User selectable operating modes (CC, CV, CP)
- Digitized waveform measurements.
- Paralleling mode of multiple units.

## Instruments Control Software & Transient Generation System:

Our controllers are equipped with powerful AC & DC transient generation system that allows complex sequences of voltage, frequency & waveshapes to be generated. This further enhances the power source's capability to simulate AC line conditions or DC disturbances. When combined with the multi phase arbitrary waveform capabilities, the AC & DC output possibilities are truly exceptional. In three phase system configurations, transient generation is controlled independently yet time synchronized on all three phases. Accurate phase angle control & synchronized transient list execution provide unparalleled accuracy in positioning AC output events.



Transient List Data Entry in ICS.



Acquired three phase voltage waveforms display on PC.

### Equipment Software Chart

		Revision	iX Series II	Compact iX	MX Series	Lx/Ls Series
<b>MIL-STD704</b>	AC Mode	A	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	-704F
		B	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	-704F
		C	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	-704F
		D	-704	-704	-704	-704 or -704F
		E	-704	-704	-704	-704 or -704F
		F	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	-704F
	DC Mode	A	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	
		B	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	
		C	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	
		D	-704	-704	-704	
		E	-704	-704	-704	
		F	-704 (CiGuiSII)	-704 (iXCGui)	-704 (MXGui)	
<b>RTCA-DO160</b>	AC Mode	C	N/A	N/A	N/A	-160
		D	-160	-160	-160	-160
		Euro/14D	-160	-160	-160	-160
		Chng 2	N/A	N/A	N/A	-160
		E	-160 (CiGuiSII)	-160 (iXCGui)	-160 (MXGui)	-160 (LxGui)
	DC Mode	C	N/A	N/A	N/A	
		D	-160	-160	-160	
		Euro/14D	-160	-160	-160	
		Chng 2	N/A	N/A	N/A	
		E	-160 (CiGuiSII)	-160 (iXCGui)	-160 (MXGui)	
<b>787B3-0147</b>	AC Mode	A, B, C	-787 (CiGuiSII)	-787 (iXCGui)	-787 (MXGui)	-787 (LxGui)
	DC Mode	A, B, C	-787 (CiGuiSII)	-787 (iXCGui)	-787 (MXGui)	
<b>ABD0100.1.8</b>	AC Mode	Table A	-ABD (CiGuiSII)	-ABD (iXCGui)	-ABD (MXGui)	-ABD (LxGui)
		Table B	-ABD (CiGuiSII)	-ABD (iXCGui)	-ABD (MXGui)	-ABD (LxGui)
		Table C	-ABD (CiGuiSII)	-ABD (iXCGui)	-ABD (MXGui)	-ABD (LxGui)
	DC Mode	Table D	-ABD (CiGuiSII)	-ABD (iXCGui)	-ABD (MXGui)	
		Table E	-ABD (CiGuiSII)	-ABD (iXCGui)	-ABD (MXGui)	

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