LMX Series

High Performance Linear AC Power Source
500VA up to 6kVA; 30kVA option

Cleanest Power, Lowest Distortion,
Highest Fidelity Output Waveforms

Key Specifications

- Single, Split, Three-Phase
- Linear Amplifier Technology
- 500VA up to 6kVA; 30kVA option
- Voltage Range: 0-135 VAC L-N / 0-234 VAC L-L 3ø
- Transformer Option: 0-338 VAC L-N / 0-585 VAC L-L 3ø
- Frequency: 15 - 5,000Hz

Highlights

- Linear Tech for superior AC output fidelity
- <0.1% Vthd Distortion up to 450Hz
- Ripple and Noise less than -72dB
- Phase Angle Programming on 3ø Models
- 6:1 Peak Current Capability
- Programmable Impedance
- Precise Output Voltage & Load Regulation
- Metering of Volts, RMS Current, Peak Current, Apparent & True Power
- Harmonics Measurements
- Advanced Scope Function
- Sine, Square, Triangle, Clipped Sine & Arbitrary Waveforms
- Transients Prog. (LIST, PULSE, STEP)
- Safety Programmable Limits
- Full Galvanic Isolation
- **SmartSource Suite** Control Platform

GPIB RS232 USB LAN LXI

CE cNemko us 61010

LMX Series Overview

Meet the industry's leading linear ac power source on the market. The LMX Series Linear AC Power Source produces low-distortion, high fidelity, output waveforms. The advantage of linear amplification is its ability to reliably reproduce oscillator waveforms with very high small signal bandwidth and low output distortion.

All standard models operate from 15 to 5,000 Hz, range in power from 500VA to 30kVA, and provide nominal output voltage ranges up to 600Vrms L-N.

Application Examples:

- Aerospace & Defense
- Industrial, Semi-Conductor, UPS Power Supplies
- Medical, White Goods, Appliances, HVAC, Lighting
- Unidirectional AC/DC Applications

Key Advantages

Very Low Output Distortion & Impedance

Clean, Reliable & Stable Power

Highest Bandwidth, Crest Factor, Start-Up Surge Current

Very High Frequency up to 5000Hz

Automated Test Equipment for Military & Defense Testing

Growing demand for power to support increasingly complex avionics, radar and weapons systems means more power is needed in less available space. The new LMX Series addresses this need by offering unmatched AC power quality output.

With extensive control over voltage, current, frequency, phase angles and transients, the LMX series is capable of handling complex Test Program Sets (TPS's) with minimal programming effort. Available in a range of power levels and output phase configuration to meet any AC test requirement up to 30kVA.

Aerospace & Avionics Testing

The low noise and low distortion analog power conversion technology used in the LMX Series Power Source results in unmatched voltage quality and high peak current capability. A wide frequency range of 15Hz to 5000Hz supports both 400Hz fixed frequency as well as 360Hz to 800Hz wild frequency development and test with exceptional harmonics support.

For compliance testing to electrical avionics test standards like RTCA/DO160 Section 16, the high 50 kHz small signal bandwidth of the LMX Series outperforms any switch-mode AC power source.

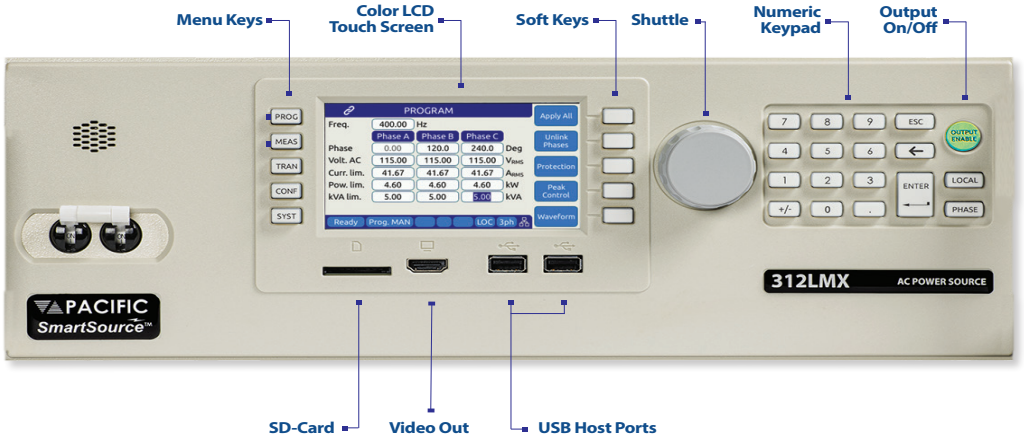
Appliances, HVAC, UPS Power Supplies, Medical Equipment

Linear AC power sources are ideal for testing appliances, white goods, HVAC systems, Lighting systems, UPS power supplies, and medical equipment, because they provide a clean, stable output with low harmonic distortion and a precise, consistent waveform.

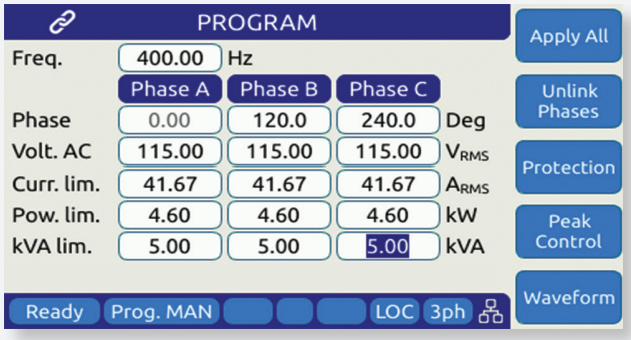
This ensures accurate simulation of real-world power conditions, which is critical for validating the performance and safety of sensitive or complex devices. Their ability to deliver smooth, noise-free power makes them especially suitable for testing high-performance equipment that demands high accuracy and reliability.

Simplify Test with Multiple Control Options

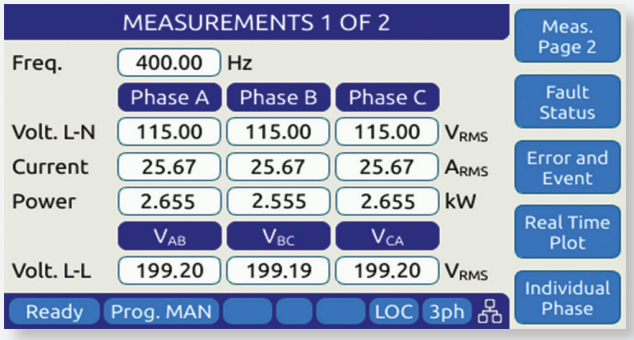
Easily access and control the unit through the front panel, USB, or via Ethernet (LAN) on any web browser.



Programming



Metering



SmartSource Suite, Built-In

Breakthrough Remote Control Platform for Enhanced Visualization & Control

The **SmartSource Suite** is an embedded web server that allows you to fully access and control Pacific Power Source products on any web browser, in real-time with an enhanced user experience and visualization tools.

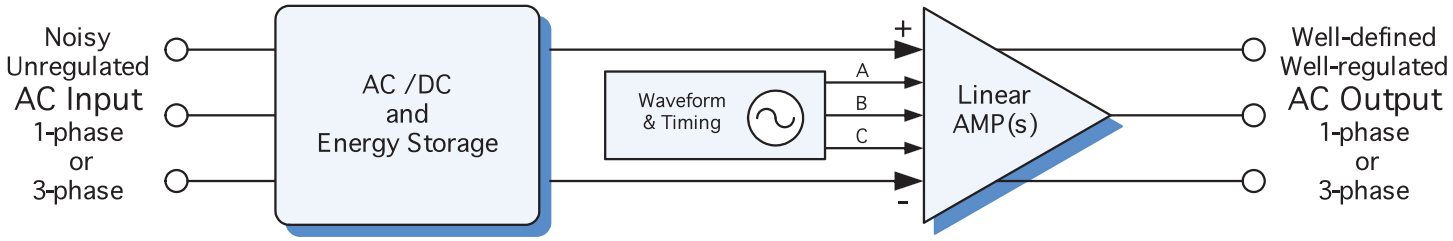
Its intuitive user-interface, full access to all test functions, and easy programming capabilities substantially reduce test time and increase productivity.

- Enhanced Visualization
- Intuitive Test Creation & Execution
- Pre-Written Test Sequences
- Usability Without Limits

Access SmartSource Suite on Any Web Browser in Real-Time

The Benefits of a Linear Amplifier Topology

Linear AC Power Sources produce low-distortion, high fidelity, output waveforms. The advantage of linear amplification is its ability to faithfully reproduce oscillator waveforms with very high small signal bandwidth and low output distortion. The disadvantage is larger size and lower efficiency inherent to Class A/AB amplifiers.



BENEFITS
Very low output distortion
Wide output bandwidth
High crest factor handling for wide range of loads without waveform distortion

DRAWBACKS
Higher temperature operation due to class A, B, and AB amplifier inefficiencies
Larger size due to increased component count
Higher weight due to increased component count

FEATURE/CAPABILITY	LINEAR
Lowest harmonic distortion	Best
Lowest output impedance	Best
Highest bandwidth	Best
Active impedance control	Best
Highest crest-factor	Best
Highest startup surge current	Best

Output Phase Modes

Three phase LMX Models can be configured to operate in one of three available phase modes or FORMs:

Single Phase

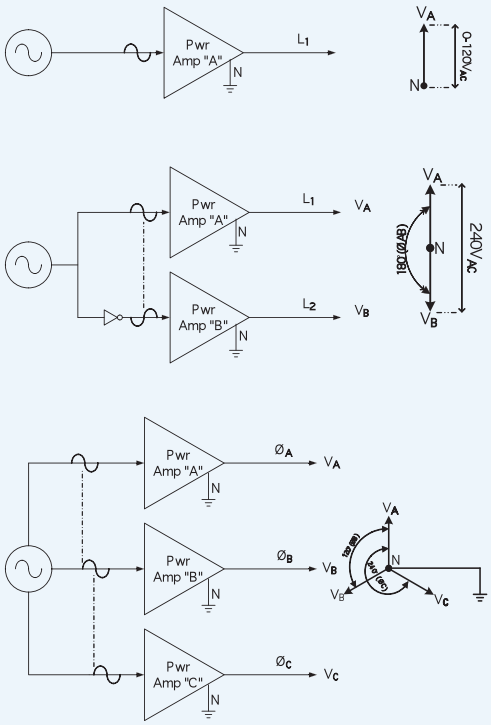
Enables Single phase output with the load connected between the 1 Phase and Neutral output terminals. Voltages are programmed phase to neutral.

Split/Single Phase

Enables high range Split/Single phase output. Load is connected either between the Phase A and Phase B output terminals (full voltage) or Phase and Neutral (half voltage). Voltages are programmed phase to phase.

Three Phase

Enables Three phase output with the load connect between the A, B, C, and Neutral terminals. Loads may be connected either line to line or line to neutral. Voltages are programmed phase to neutral.

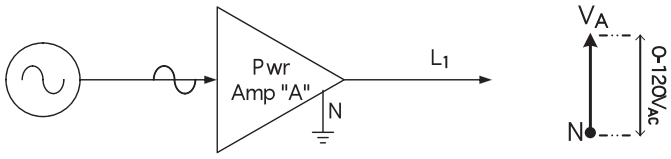


Wide Selection of Voltage Ranges

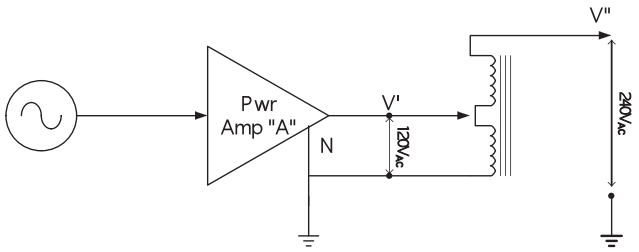
LMX Series supports up to 135VLN/270VLL (single-phase) or 135VLN/234VLL (three-phase).

Transformer Option

The T-Option provides transformer-coupled outputs at 1.5:1, 2.0:1, or 2.5:1 ratios, reaching 600V (single-phase) or 585V (three-phase). Automatic switching eliminates manual reconnection.



Direct Coupled Output Voltage Range.



Transformer Coupled Output Voltage Range

Generate Clean Waveforms

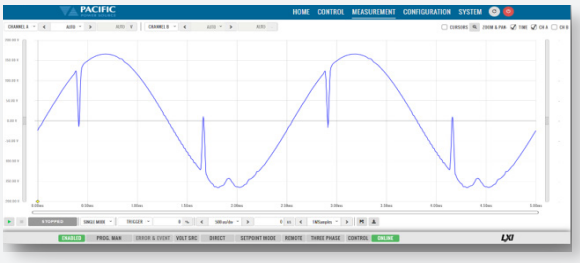
The built-in **SmartSource Suite** simplifies execution of test sequences. In this avionics application example, we are building a transient waveform at 115Vac, 400Hz using the LMX Series.

The user can easily enter various parameters and evaluate the waveforms using multiple windows on a web browser to increase productivity.

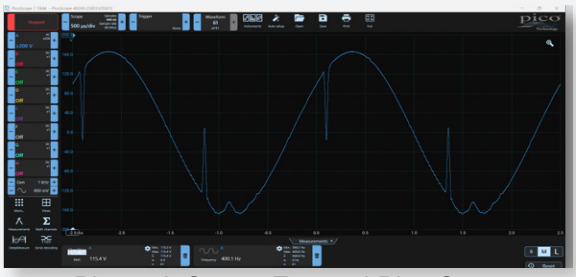
The LMX provides the lowest harmonic distortion and output impedance for high fidelity output waveforms.

Building a transient in Waveform

Applied Waveform to All Three Phases



Phase A Output Scope Function

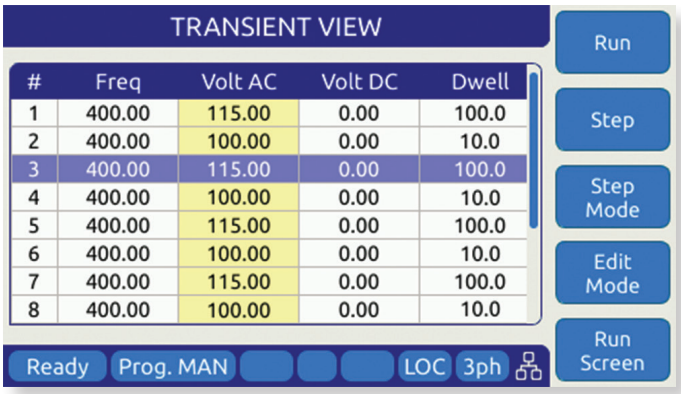


Phase A Output External Pico Scope

Transient Programming

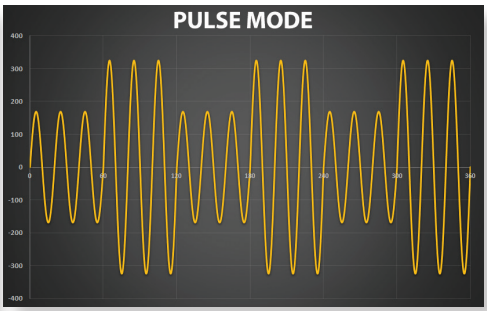
Voltage, Waveform and Frequency output transients are easily created from the front panel using an intuitive spreadsheet style data entry method. Data may be entered for a specific phase or for all three phases at the same time.

Create voltage, waveform, and frequency transients easily via the front panel or web interface using LIST, PULSE, or STEP modes. Edit, store, and execute transients in non-volatile memory.

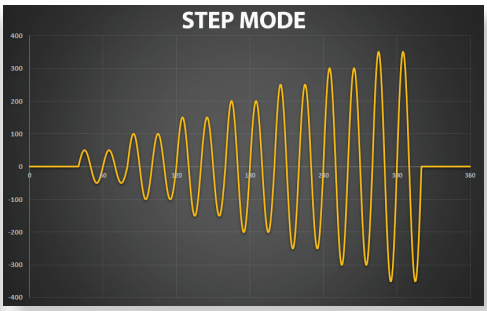


Transient Executing in View Mode

LIST MODE



PULSE MODE

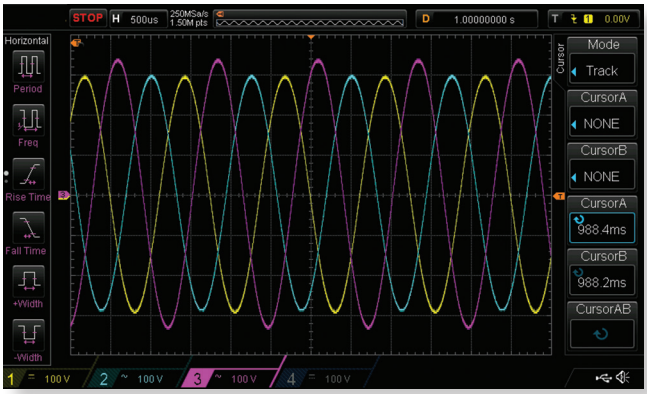


STEP MODE

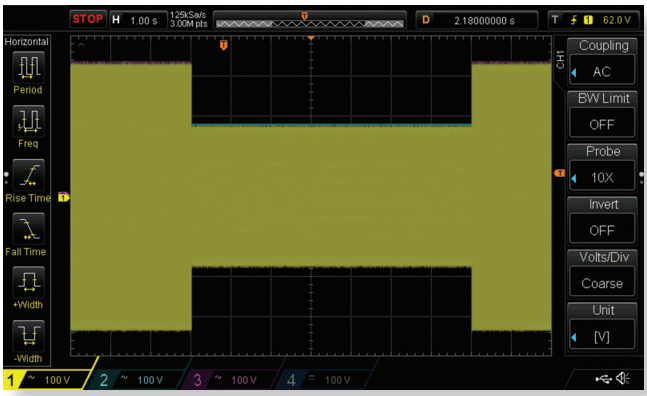
Advanced Scope Capture

The LMX Series supports diverse AC power tests with full control over voltage, current, frequency, power, slew rates, and phase angles.

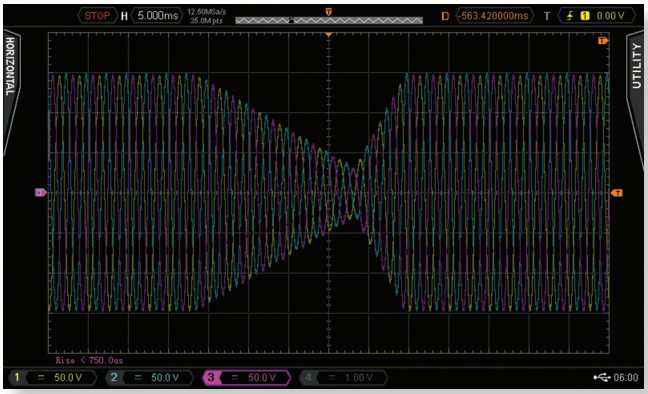
Ideal for compliance, transformer, appliance, DC charger, and UPS testing. Scope images show example waveforms.



Three Phase Unbalance Voltage Test Captured



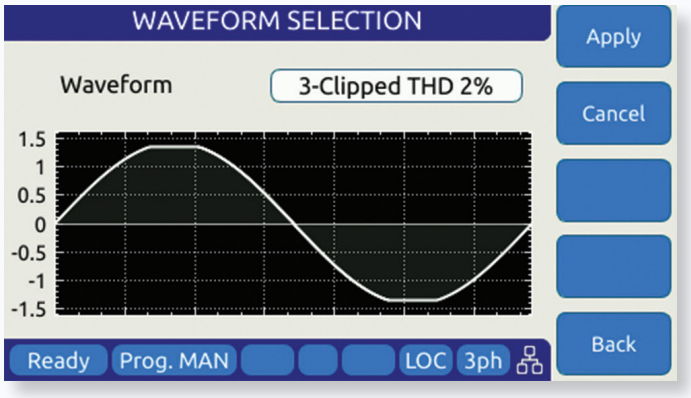
Three Phase Voltage Drop Test Captured



AC Transient Output Captured on Digital Scope

Select from Library of 200 Arbitrary Waveforms

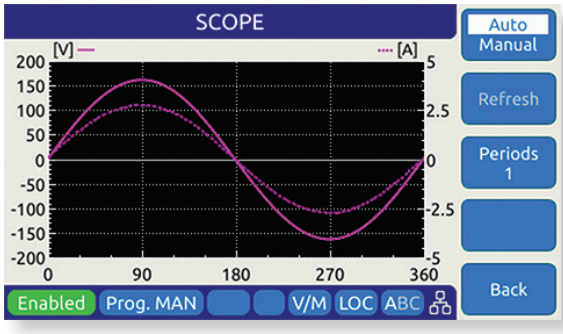
LMX Series offers sine, clipped sine, square, triangle, and custom waveforms. Create and preview arbitrary waveforms via SmartSource Suite web browser with named aliases for easy selection.



Clipped Sine Waveform Selection - Vthd = 2%

Capture Voltage and Current Waveforms

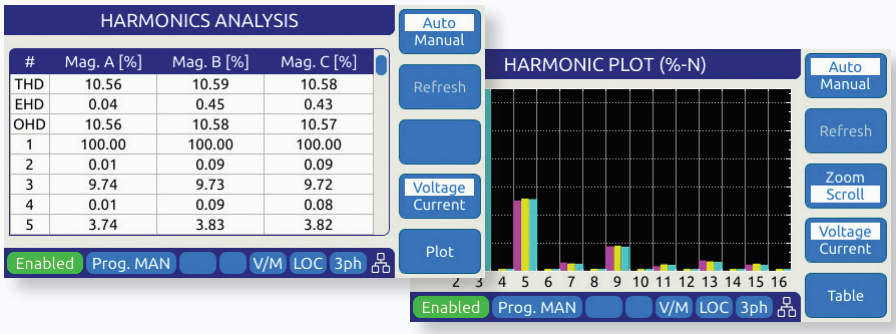
Built-in digital scope function captures voltage and current time domain signals, perfectly synchronized to the output frequency. Voltage and current displayed with accurate phase relationship. Display output waveforms on front panel or in Web browser.



Harmonic Measurements

Eliminate the need for an external power analyzer by measuring voltage and current harmonics. Harmonics information is displayed in either bar charts or detailed table format for easy viewing and analysis.

Data is displayed for individual phase or all three phase simultaneously.



Auxiliary I/O Functions

To support integrated test system design and interaction with the load or other equipment, the LMX Series offers a range of analog and digital I/O functions.

User Programmable I/O. Assign command macros or programming parameters to analog or digital I/O pins as needed. This provides a unique level of customization for putting together sophisticated test stations.

Single-Phase Models

Direct Coupled Output Units (15 Hz - 5000 Hz)

MODEL	Rated Power (VA)[1]	Output Form[2]	Output Voltage Max[3] (l-n/l-l)	Output Current[4] (A_{rms})	Input Power[5]	Unit Height (in.-U)	Unit Weight (lbs/kg)
105LMX	500	1/2	0-135/270	4/2	1Ø	5.25-3U	70/31.8
108LMX	750	1/2	0-135/270	6/3	1Ø	5.25-3U	70/31.8
112LMX	1200	1/2	0-150/300	10/5	1Ø	5.25-3U	80/36.3
140LMX	4000	1/2	0-135/270	32/16	3Ø	14-8U	185/84.0
160LMX	6000	1/2	0-135/270	48/16	3Ø	14-8U	195/88.6

Direct / Transformer Coupled Selectable Output Units (45 Hz - 5000 Hz)

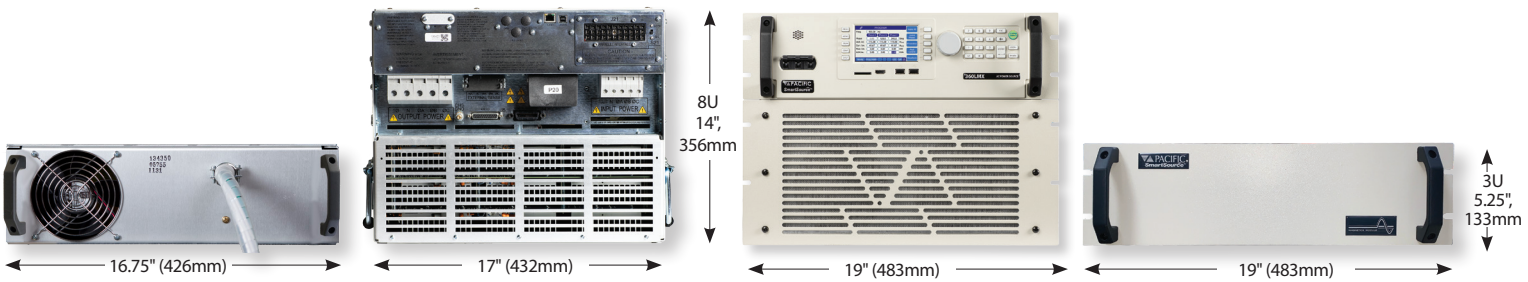
MODEL	Rated Power (VA)[1]	Output Form[2]	Output Voltage Max[3] (l-n/l-l)				Output Current[4] (A_{rms})				Input Power[5]	Unit Height (in.-U) Weight (lbs/kg)	Transformer Height (in.-U) Weight (lbs/kg)
			Direct	Transformer Ratio 1.5:1	Transformer Ratio 2.0:1	Transformer Ratio 2.5:1	Direct	Transformer Ratio 1.5:1	Transformer Ratio 2.0:1	Transformer Ratio 2.5:1			
105LMXT	500	1/2	0-135/270	0-202/404	0-270/540	0-338/600	4/2	2.6/1.3	2/1	1.6/0.8	1Ø	5.25-3U 97/44.0	Integrated
108LMXT	750	1/2	0-135/270	0-202/404	0-270/540	0-338/600	6/3	4/2	3/1.5	2.4/1.2	1Ø	5.25-3U 97/44.0	Integrated
140LMXT	4000	1/2	0-135/270	0-202/404	0-270/540	0-338/600	32/16	21.3/10.7	16/8	12.8/6.4	3Ø	14-8U 185/84.0	5.25-3U 125/56.8
160LMXT	6000	1/2	0-135/270	0-202/404	0-270/540	0-338/600	48/16	32/10.7	24/8	19.2/6.4	3Ø	14-8U 195/88.6	5.25-3U 125/56.8

1. Rated output power is based on a combination of output voltage, current and load power factor. Values stated represent the rated capabilities of a given model. Consult factory for assistance in determining specific unit capabilities as they might apply to your application.
2. All single phase units are operable with dual voltage ranges as listed. Output voltage ranges and 1Ø/2Ø conversions are selected by front panel or bus command.
3. Output voltage ranges listed are for standard units. VMAX is achievable with nominal input voltage at full load.
4. Current ratings at 125 V_{RMS} output. Current may vary with power factor.
5. Input power frequency is 47–63 Hz. Single Phase: 100, 110, 120, 200, 208, 220, 230, 240, VAC ±10%. Three phase: 208, 220, 240, 380, 400, 416 VAC ±10% (480 VAC option available).
6. Single phase and 400 Hz input options may be available. Consult Factory.

3U (5.25") Rack Height Models

5U (8.25") Rack Height Models

8U (14") Rack Height Models



360LMXT Power Source with optional external high range transformer module.

Three-Phase Models

Direct Coupled Output Units (15 Hz - 5000 Hz)

MODEL	Rated Power (VA)[1]	Output Form[2]	Output Voltage Max[3] (l-n/l-l)	Output Current[4] (A_{rms})	Input Power[5]	Unit Height (in.-U)	Unit Weight (lbs/kg)
305LMX	500	1/2 3	0-135/270 0-135/234	4/2 1.3/Ø	1Ø	5.25-3U	74/33.6
308LMX	750	1/2 3	0-135/270 0-135/234	6/2 2/Ø	1Ø	5.25-3U	74/33.6
312LMX	1200	1/2 3	0-150/300 0-150/260	10/3.3 3.3/Ø	1Ø	5.25-3U	80/36.3
320LMX	2000	1/2 3	0-135/270 0-135/234	18/6 6/Ø	3Ø	8.75-5U	150/68.2
345LMX	4500	1/2 3	0-135/270 0-135/234	36/12 12/Ø	3Ø	14-8U	190/86.3
360LMX	6000	1/2 3	0-135/270 0-135/234	48/16 16/Ø	3Ø	14-8U	195/88.6

Direct / Transformer Coupled Selectable Output Units (45 Hz - 5000 Hz)

MODEL	Rated Power (VA)[1]	Output Form[2]	Output Voltage Max[3] (l-n/l-l)				Output Current[4] (A_{rms})				Input Power[5]	Unit Height (in.-U) Weight (lbs/kg)	Transformer Height (in.-U) Weight (lbs/kg)
			Direct	Transformer			Direct	Transformer					
				Ratio 1.5:1	Ratio 2.0:1	Ratio 2.5:1		Ratio 1.5:1	Ratio 2.0:1	Ratio 2.5:1			
305LMXT	500	1/2 3	0-135/270 0-135/234	0-202/404 0-202/350	0-270/540 0-270/468	0-338/600 0-338/585	4/2 1.5/Ø	2.6/1.3 1.0/Ø	2/1 0.75/Ø	1.6/0.8 0.6/Ø	1Ø	5.25-3U 100/45.5	Integrated
308LMXT	750	1/2 3	0-135/270 0-135/234	0-202/404 0-202/350	0-270/540 0-270/468	0-338/600 0-338/585	6/2 2/Ø	4/1.3 1.3/Ø	3/1 1/Ø	2.4/0.8 0.8/Ø	1Ø	5.25-3U 100/45.5	Integrated
320LMXT	2000	1/2 3	0-135/270 0-135/234	0-202/404 0-202/350	0-270/540 0-270/468	0-338/600 0-338/585	18/6 6/Ø	12/4 4/Ø	9/3 3/Ø	7.2/2.4 2.4/Ø	3Ø	8.75-5U 150/68.2	5.25-3U 125/56.8
345LMXT	4500	1/2 3	0-135/270 0-135/234	0-202/404 0-202/350	0-270/540 0-270/468	0-338/600 0-338/585	36/12 12/Ø	24/8 8/Ø	18/6 6/Ø	14.4/4.8 4.8/Ø	3Ø	14-8U 190/86.3	5.25-3U 125/56.8
360LMXT	6000	1/2 3	0-135/270 0-135/234	0-202/404 0-202/350	0-270/540 0-270/468	0-338/600 0-338/585	48/16 16/Ø	32/10.7 10.7/Ø	24/8 8/Ø	19.2/6.4 6.4/Ø	3Ø	14-8U 195/88.6	5.25-3U 125/56.8

1. Rated output power is based on a combination of output voltage, current and load power factor. Values stated represent the rated capabilities of a given model. Consult factory for assistance in determining specific unit capabilities as they might apply to your application.
2. All three phase units are operable as single phase with dual voltage range capability or as three phase. Output voltage ranges and 1Ø/3Ø conversions are selected by front panel or bus command.
3. Output voltage ranges listed are for standard units. VMAX is achievable with nominal input voltage at full load. Other voltage ranges are available with the output magnetics option.
4. Current ratings at 125 V_{RMS} output. Current may vary with power factor.
5. Input power frequency is 47–63 Hz. Single Phase: 100, 110, 120, 200, 208, 220, 230, 240, VAC ±10%. Three phase: 208, 220, 240, 380, 400, 416 VAC ±10% (480 VAC option may be available.).
6. Single phase and 400 Hz input options may be available. Consult Factory.

Parallel Configurations for Higher Power

LMX models (140LMX, 345LMX, 160LMX, 360LMX) with the Parallel Bus (-PB) option can synchronize up to five units for systems up to 30kVA. Programming and measurements are managed via the master unit, while AUX units operate under its control. See table for configurations.

MODEL[1]	Consist of	Phase Mode	Rated Power
390/180LMX	2 x 345 or 140LMX	3 & 2 or 1 Phase	9 / 8 kVA
3120/1120LMX	2 x 360 or 160LMX	3 & 2 or 1 Phase	12 kVA
3180 /1180LMX	3 x 360 or 160LMX	3 & 2 or 1 Phase	18 kVA
3240/1240LMX	4 x 360 or 160LMX	3 & 2 or 1 Phase	24 kVA
3300/1300LMX	5 x 360 or 160LMX	3 & 2 or 1 Phase	30 kVA

Note 1: System Model numbers shown are for reference only. Not actual order numbers.

Technical Specifications

OUTPUT	SPECIFICATION
Power	
Output	See Model Tables page 8 & 9
Voltage	
Mode	AC
Direct Coupled Range[1]	0-135 Vac LN / 0-234 Vac LL
T-Option Ranges	Turns ratios: 1.5:1, 2.0:1, 2.5:1
Programming Resolution	0.01 V
Accuracy Note: Full scale accuracy varies by LMX model	CSC mode OFF: 0.5% FS (=.75Vrms for 150V range) CSC mode ON: See AC Voltage measurement accuracy specs.
Waveforms (200 Max.)	Sine, Square, Triangle, Clipped (THD), Arbitrary
DC Offset	< 20 mV
Harmonic Distortion (Vthd)	(full, resistive load)
3U Models:	15~450 Hz: < 0.1% 450~5000 Hz: < f x 0.076% + 0.07% (f in kHz)
5U Models:	15~1000 Hz: < 0.1%
8U Models:	1000~5000 Hz: < 0.25%
Output Noise	< 50 mVrms
Load Regulation	± 0.02% F.S. in CSC Mode ±0.25% F.S. CSC off
Line Regulation	< 0.1% for 10% Line Change
Voltage Sense	External Sense, max. voltage drop 5% F.S.
Voltage Response Time	5 µsec typical step load change
Small Signal Bandwidth	5 Hz to 40 kHz, ±3dB, 10% F.S.
Isolation	
Output Neutral to Chassis	150Vac
Frequency	
Direct Coupled Range	15.00 – 5000.0 Hz
T-Option	45.00 – 5000.0 Hz
Programming Resolution	0.01 Hz
Accuracy	± 0.005% / 50 ppm
Current	
Range	See Model Tables page 8 & 9
Programming Resolution	0.01 Arms
Accuracy[2]	± (0.5% + f (kHz) * 0.5%) F.S.
Current Protection (CP) Modes	Constant Current (CC) or Output Trip (CV)
Phase Angle *(In 3 and 2 Phase Mode)*	
Programmable Phase (B, C)	0 - 359.9°
Resolution	0.1°
Accuracy	±0.35° / ±0.1° Phase Reg. Mode
Programmable Impedance (Per unit, incl paralleled)	

Note 1: V_{LL} applies to three phase LMX Models in three phase mode
Note 2: Specification valid above 40Hz

PROTECTION	SPECIFICATION
Types	AC Current, True Power, Apparent Power, Over Voltage, Over Temperature

TRANSIENTS	Specification
Programming	
No. of Entries	200 Steps / 400 segments
Modes	LIST, PULSE, STEP
Parameters	Frequency, Volt AC, Waveform, Ramp Time, Dwell Time
Dwell Time Range	0.2 - 10000000.0 msec
Time Resolution	0.1 msec
Edit Modes	Add at end, Insert before, Delete
Execution	
Run Control	Run from step # to step # Run, Step, Restart, Stop
Execution Modes	Normal, Debug
Program Storage	
Non-volatile	100 Programs + Transients

MEASUREMENTS	SPECIFICATION
AC Voltage (Vrms)	
Range	0 – 340 V_{LN} / 0-600 V_{LL}
Resolution	0.01 V
Accuracy	Freq <1kHz: +/- (0.05% FS+ 0.15% rdg); Freq > 1kHz: +/- (0.05% FS + 0.15% rdg)* (1+ (F-1)/4) (with F in kHz)
Frequency (Hz)	
Fundamental Range	15 - 5000 Hz
Resolution	0.01 Hz
Accuracy	± 0.1% Rdg
AC Current (Arms)	
Range	See Model Tables page 8 & 9
Resolution	0.01 Arms
Accuracy[1]	± (0.5% + f (kHz) * 0.5%) F.S.
Current Crest Factor	
Range	1.00 - 5.00
Resolution	0.01
Accuracy[1]	± 2.0% F.S.
AC Power (W)	
Range	See Model Tables page 8 & 9
Resolution	1 W front panel / 0.1 W remote
Accuracy[1]	± 0.75 % F.S.
Apparent Power (VA)	
Range	See Model Tables page 8 & 9
Resolution	1 VA front panel / 0.1 VA remote
Accuracy[1]	± 0.75 % F.S.

Note 1: Specification valid above 40Hz

WAVEFORM CAPTURE	SPECIFICATION
Parameters	V_{LN-A}, V_{LN-B}, V_{LN-C}, $V_{LL\ AB}$, $V_{LL\ AC}$, $V_{LL\ BC}$, I_A, I_B, I_C
Max. Sample Rate	500 ksps
Samples/cycle	1024 (512 in UPC Compatibility mode)
Record Length	8 MSamples
Bandwidth	100 kHz @ 500 ksps

HARMONICS MEAS.	SPECIFICATION
Parameters	VLN-A, VLN-B, VLN-C, VLL AB ,VLL AC ,VLL BC ,IA, IB, IC
Harmonics Range	H2 ~ H50
Accuracy – Amplitude	± 1.0 % of RMS Reading
Phase Angle Range	0 ~ 359.9
Accuracy - Phase Angle	< 8 µsec
Bandwidth	100 kHz @ 500 ksps
Display Modes	Table format, Graph Format

AC INPUT	SPECIFICATION
Mains Voltage Form	4 Wire, L1, L2, L3 and PE
Frequency	47 - 63 Hz
Single Phase AC Input Selections	
Input Voltages	100, 110, 120, 200, 220 or 240 Vac
Phase Current	Model specific
Input Power Factor	> 0.9
Three Phase AC Input Selections	
Input Voltages	208, 220, 240, 380, 416 or 480 Vac
Phase Current	Model specific
Input Power Factor	> 0.9

ENVIRONMENTAL	SPECIFICATION
Cooling	Variable speed fan cooled, front and/or side air intake, rear exhaust
Audible Noise	65 dBA Max. @ 1 meter
Temperature	
Operating	0 to 55 °C / 32 to 131 °F
Storage	-10 to 70 °C / 14 to 158 °F
Humidity	< 0 - 95 %, non-condensing
Altitude	Operating: 1,981 m / 6500 feet Storage: 12,192 m / 40,000 feet

SYSTEM FEATURES	DESCRIPTION
DISPLAY	
Type	Full Color, Touch LCD Display
Size	4.3" Diagonal
Resolution	480 x 272 pixels
USB Ports	2 Front Panel, 1 Rear Panel, Type A
SD Card	32 GB max. Capacity
Video Output	Monitor Out, Front Panel

INTERFACES	DESCRIPTION
Remote Control	
USB	Device Type B
RS232	1200 - 921600 baud
LAN	LXI compliant, Ethernet, RJ45, TCP/IP Protocol, Telnet Protocol Command Line
GPIB	IEEE488,1,IEEE488.2(2003incl.,NIHS488) IEC 60488-1, IEC 60488-2 (2004)
	Functions:SH1,AH1,T6,L3,SR1,RL1,DC1,DT1
WiFi	Optional USB WiFi adaptor available

ANALOG I/O	SPECIFICATION
Analog Inputs (4)	
Modes	Amplifier, Amplitude Modulation, Int. + Ext. Input Summing
AI1, AI2, AI3	Programmable setting phs A, B, C
AI4	Programmable
Range	-10V to +10 V
Accuracy	± 0.1% F.S.
Impedance	AI1, 2 & 3: 7.2 kOhm, AI4: 5.0 kOhm
Analog Outputs (4)	
AO1, AO2, AO3, AO4	User defined measurement functions.
Range	0 – 5 Vdc for 0 - F.S.
Accuracy	± 0.1% F.S. into > 5 kOhm load
Impedance	< 10 Ohm
Connector Type	DB25, Rear Panel

DIGITAL I/O	SPECIFICATION
Digital Inputs (6)	
Fixed (3)	Remote Inhibit, Transient Trigger, Phase Sync
User Programmable (3)	DI1, DI2, DI3
Input Levels	Low < 0.4V, High > 2.0V
Digital Outputs (6)	
Open Collector, Fixed (2)	Relay Control FORM, Relay Control T Option
TTL, Fixed (2)	Output Relay/Transient /Function Strobe Phase Sync
User Programmable (2)	DO1, DO2
Output Levels	Low < 0.4V, High > 4.6V
Connector Type	DB25, Rear Panel

MECHANICAL	SPECIFICATION
Dimensions	
Width	19" / 482mm
Height	See Model Tables page 8 & 9
Depth *(Includes rear connectors, excludes rack handles)*	3U Models: 23.8" / 604 mm 5U Models: 25.1" / 637 mm 8U Models: 24.4" / 621 mm
Weight	
Net	See Model Tables page 8 & 9

REGULATORY	SPECIFICATION
Safety	IEC 61010-1:2010 (Edition 3)
EMC	
Emissions Standard	EN 55011:2009+A1:2010
Immunity Standard	EN 61000-4-2, -3, -4, -5, -6, -8, -11
Product Category	EN 61326-1:2013 (Measurement, Laboratory and Control Equipment)
Approvals (Option)	CE Mark
RoHS (DIRECTIVE 2011/65/EU)	
Product Category	EN50581:2012

Ordering Information

Single Phase Models (T = Option)

- ☐ 105LMX(T)
- ☐ 108LMX(T)
- ☐ 112LMX
- ☐ 140LMX(T)
- ☐ 160LMX(T)

Three Phase Models (T = Option)

- ☐ 305LMX(T)
- ☐ 308LMX(T)
- ☐ 312LMX
- ☐ 320LMX(T)
- ☐ 345LMX(T)
- ☐ 360LMX(T)

AC Input Voltages (V_{IN})

- ☐ Must be specified on order, see pages 8 & 9

Options

- ☐ 413 Option "C" Interharmonics Generator
- ☐ PB* Parallel Bus Master Unit
- ☐ AUX* Parallel Auxiliary Unit, no controlller
- ☐ E Export version, "E" postfix

* Available on 140, 160, 345 & 360LMX models only

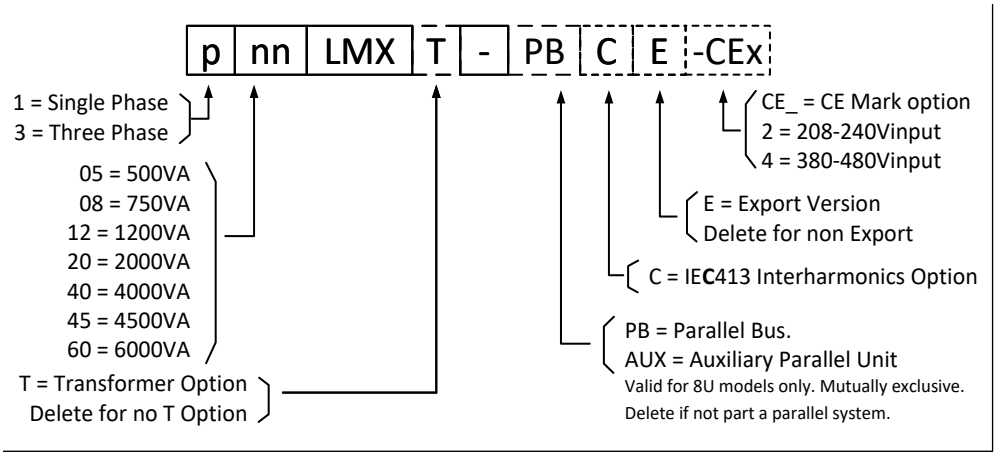
Order Example

360LMX
- AC Power Source, 6000VA, 3-Phase, No T-Option, USB, RS232, LAN, GPIB & AUX I/O
- Specify Factory set AC Input Voltage
- Specify if CE or NRTL certification is needed

Typical Delivery Items

- AC Power Source
- English Manuals in PDF Format
- Certificate of Compliance
- Optional CE Mark (CE2 or CE4) or optional NRTL - Must be specified on order

Model Number Configurator



Pre-Written Test Sequence Options

Test Sequence Options require use of the built-in **SmartSource Suite** remote control platform via LAN or USB.

Test Sequences - Avionics[2]

ABD0100.1.8 - Airbus A380, AC Power Groups
ABD0100.1.8.1 - Airbus A350, AC Power Groups
AMD24C - Airbus A400M, AC Power Groups
Boeing 787B3-0147 - B787, AC Power Groups
MIL-STD704 - US DoD, AC Power Groups
RTCA-DO160 Section 16, AC Power Groups

Test Sequences - Other[2]

IEC Test Suite - Includes IEC61000-4-11p, IEC61000-4-14, IEC61000-4-27p, IEC61000-4-28 and IEC61000-4-34p
IEEE 1547.1
MIL-STD 1399-300B - US DoD
MIL-STD 1275 Rev E
SEMI F47-0706
KS C 9610 4-11, KS C 9610-4-29

Worldwide Service & Support

NORTH AMERICA
Pacific Power Source, Inc.
Irvine, USA
Phone: +1(949) 251-1800
Fax: +1 (949) 756-0756
Email: sales@pacificpower.com
Web: www.pacificpower.com

EUROPE
Pacific Power Source Europe GmbH.
Kappelrodeck, Germany
Phone: +49 7842 99722-20
Fax: +49 7842 99722-29
Email: info@pacificpower.eu

UNITED KINGDOM
Caltest Instruments Ltd.
Petersfield, UK
Phone: +44 (0) 1483 302 700
Email: sales@caltest.co.uk

CHINA
PPST Shanghai Co. Ltd.
Shanghai, China
Phone: +86-21-6763-9223
Fax: +86-21-5763-8240
Email: info@ppst.com.cn

INDIA
CALTEST INSTRUMENTS PVT LTD
Bandi Kodigehalli, Bangalore
Phone: +919845007602
Email: info@caltestindia.com
Web: www.caltestindia.com

2802 Kelvin Avenue, Suite 100
Irvine, CA 92614 -5897 USA
Phone: +1 949.251.1800
Toll Free: 800.854.2433
E-mail: sales@pacificpower.com
Web: www.pacificpower.com

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