





# **About Pacific Power Source, Inc.**

**Pacific Power Source** has been involved in the design and manufacture of programmable AC power sources since 1971 when the company first opened its doors. Early product development was focused on highly reliable solid state frequency conversion for 400Hz and higher frequency defense applications. Since then, commercial aviation, consumer and industrial products have taken on just as significant a representation in Pacific Power's Customer base.

Headquartered in Irvine, CA with additional facilities in Santa Ana, San Diego, Shanghai, Petersfield UK and Kappelrodeck Germany to ensure local and timely support for its customers.

Throughout its 50+ years existence, the company has remained focused on customer satisfaction and delivery of high quality products that meet or exceed specifications and expectations. Working closely with our customers, we have delivered numerous custom test solutions to meet specific end-user requirements. As a privately owned, agile company, we are able to quickly adapt to changing market needs and remain in close contact with our customers through a large network of sales representatives and distributors throughout the world.

Find the Series that best fits your needs

Single, Split and Three Phase Output Modes

LAN and LXI Interface, USB

Regenerative, Bidirectional Energy Flow to/from AC Grid



Pacific Power Source Corporate Headquarters in Irvine, California

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Tilla the Series that best his your h	eeds				
PRODUCT APPLICATION	LSX	LMX	AFX	ADF	AZX
Automated Test Power (ATE)	✓	✓	<b>✓</b>	✓	✓
AC Ouput	✓	✓		✓	✓
AC, DC & AC+DC Output			✓		
Front Panel Controls	✓	✓	✓	✓	✓
Power Line Disturbance/Transient Test	✓	✓	✓		✓
Lab Frequency Converter	✓	✓	✓	✓	
Facilities Frequency Converter			✓	✓	✓
High AC Output Frequency to 5 kHz		✓			
High Current Crest Factor Support		✓	✓	✓	
Linear Technology - Low Output Noise & Distortion		✓			
Switch Mode Technology - Compact	✓		✓	✓	✓

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# LSX Series: Single- and Three-Phase Output Switch Mode AC Power Sources

### **Standard Features:**

- Single and Three Phase Models
- 15 to 1200 Hz. Full Power Operation 5000 Hz small signal bandwidth
- Power Levels from 1500VA to 6000VA
- High Current Crest Factor Support
- Compact Size and Power Efficient Operation
- Variable Speed Fan Control for Quiet Operation
- Advanced Precision Controller with Color Touch User Interface
- Precision RMS metering of volts, amps and power
- PPS Studio Windows Software Suite and built-in Web Server
- LAN (LXI), USB, GPIB (IEEE-488.2) & RS232 Interface standard
- Harmonic Analysis and Waveform Synthesis
- Programmable Output Impedance (Prog-Z)
- Time Domain Waveform Capture and Peak Inrush Capture



315LSX - 1500VA



360LSX - 6000VA

LSX Mode	ls - Sing	le Phase	e Outpu	t								
	Rated Power <sup>1</sup>		Voltage M	lax² (Vrms)			Current	³ (Arms)		Output Frequency	AC Input	Rack Height
MODEL	(VA)	Direct	T 1.5:1	T 2.0:1	T 2.5:1	Direct	T 1.5:1	T 2.0:1	T 2.5:1	(Hz)		
115LSX	1500	132	-	-	-	16.0	-	-	-			
115LSXT	1300	132	0-198	0-264	0-330	10.0	10.7	8.0	6.4		1ø	3U
120LSX	2000	150/300	-	-	-	20/14	-	-	-			
140LSX	4000	125/270	-	-	-	22/16	-	-		15.00-1200		5U
140LSXT	4000	135/270	202/404	270/540	338/600	32/16	21.3/10.7	16.0/8.0	12.8/6.4		2 ~	8U
160LSX	6000	132/264	-	-	-	40/16	-	-	-		3 ø	5U
160LSXT	6000	132/204	198/396	264/528	330/600	48/16	32/10.6	24/8	19.2/6.4			8U

LSX Model	s - Sing	gle and Th	ree Pha	se Outp	ut							
	Rated Power <sup>1</sup>		Voltage Max <sup>2</sup> (Vrms)					t³ (Arms)		Output Frequency	AC Input	Rack Height
MODEL	(VA)	Direct	T 1.5:1	T 2.0:1	T 2.5:1	Direct	T 1.5:1	T 2.0:1	T 2.5:1	(Hz)		
315LSX	1500	132/264 132/228 (3ø)	198⁴ (3ø only)	264 <sup>4</sup> (3ø only)	338 <sup>4</sup> (3ø only)	12/8 4/ø	2.6/ø <sup>4</sup> (3ø only)	2.0/ø <sup>4</sup> (3ø only)	1.6/ø <sup>4</sup> (3ø only)		1 ø	3U
320LSX	2000	150/300 150/260 (3ø)	225⁴ (3ø only)	300⁴ (3ø only)	375⁴ (3ø only)	20/12 7/ø	4.66/ø <sup>4</sup> (3ø only)	3.5/ø <sup>4</sup> (3ø only)	2.8/ø <sup>4</sup> (3ø only)	1 ø	30	
345LSX		135/270	-	-	-	36/12	-	-		15.00-		5U
345LSXT	4500	135/234 (3ø)	202/404 202/350	270/540 270/468	338/600 338/585	12/ø	24/8 8/ø	18/6 6/ø	14.4/4.8 4.8/ø	1200	2 ~	8U
360LSX		135/270	-	-	-	48/16	-	-	-		3 ø	5U
360LSXT	6000	135/270 135/234 (3ø)	198/396 198/343	264/528 264/457	330/600 330/572	46/16 16/ø	32/10.7 10.7/ø	24/8 8/ø	19.2/6.4 6.4/ø			8U

NOTES: 1. Rated output power is based on a combination of nominal output voltage, rated current and load power factor. 2. Vmax is maximum RMS output voltage with full rated load applied.

3. Available current will vary with output voltage and power factor. See product datsheets. Values shown in table are Rated RMS Current. 4. Requires Mod M99211. See page 8.

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# LMX Series: Single- and Three-Phase Output Linear AC Power Sources

### **Standard Features:**

- Single and Three Phase Models
- 15 to 5000 Hz. Full Power Operation 40 kHz small signal bandwidth
- Power Levels from 500VA to 30kVA
- Extreme Low Noise and Distortion Output
- Variable Speed Fan Control for Quiet Operation
- Advanced Precision Controller with Color Touch User Interface
- Precision RMS metering of volts, amps and power
- PPS Studio Windows Software Suite and built-in Web Server
- LAN (LXI), USB, GPIB (IEEE-488.2) & RS232 Interface standard
- Harmonic Analysis and Waveform Synthesis
- Programmable Output Impedance (Prog-Z)
- Time Domain Waveform Capture and Peak Inrush Capture

## **Available options:**

• Master/Slave Parallel Mode for 345LMX & 360LMX models



312LMX - 1200VA



320LMX - 2KVA



LMX Mo	dels - S	ingle Ph	ase Out	put								
	Rated Power <sup>1</sup>		Voltage M	ax² (Vrms)			Current	³ (Arms)		Output Frequency	AC Input	Rack Height
MODEL	(VA)	Direct	T 1.5:1	T 2.0:1	T 2.5:1	Direct	T 1.5:1	T 2.0:1	T 2.5:1	(Hz)		
105LMX	500	135/270	-	-	-	4.0/2.0	-	-	-			
105LMXT	300	133/2/0	202/404	270/540	338/600	4.0/ 2.0	2.6/1.3	2.0/1.0	1.6/0.8			
108LMX	750	135/270	-	-	-	6.0/3.0	-	-	-		1ø	3U
108LMXT	730	133/2/0	202/404	270/540	338/600	0.0/3.0	4.0/2.0	3.0/1.5	2.4/1.2			
112LMX	1200	150/300	-	-	-	10.0/5.0	-	-	-	20.00-5000		
140LMX	4000	135/270	-	-	-	32/16	-	-				8U
140LMXT	4000	133/2/0	202/404	270/540	338/600	32/10	21.3/10.7	16.0/8.0	12.8/6.4		3 ø	11U
160LMX	6000	135/270	-	-	-	48/16	-	-	-		30	8U
160LMXT	0000	133/2/0	202/404	270/540	338/600	40/10	32.0/10.7	24.0/8.0	19.2/6.4			11U

LMX Mo	dels -	Single an	d Three P	hase Out	tput							
	Rated Power <sup>1</sup>		Voltage N	lax² (Vrms)			Curren	t³ (Arms)		Output Frequency	AC Input	Rack Height
MODEL	(VA)	Direct	T 1.5:1	T 2.0:1	T 2.5:1	Direct	T 1.5:1	T 2.0:1	T 2.5:1	(Hz)		
305LMX		125/270	-	-	-	4/2	-	-	-			
305LMXT	500	135/270 135/234 (3ø)	202/404 202/350 (3ø)	270/540 270/468 (3ø)	338/600 338/585 (3ø)	4/2 1.3/ø (3ø)	2.6/1.3 1.0/ø (3ø)	2/1 0.75/ø (3ø)	1.6/0.8 0.6/ø (3ø)			
308LMX		135/270	-	-	-	6/2	-	-			1 ø	3U
308LMXT	750	135/270 135/234 (3ø)	202/404 202/350 (3ø)	270/540 270/468 (3ø)	338/600 338/585 (3ø)	2/ø (3ø)	4/1.3 1.3/ø (3ø)	3/1 1/ø (3ø)	2.4/0.8 0.8/ø (3ø)		10	30
312LMX	1200	150/300 150/260 (3ø)	225⁴ (3ø only)	300⁴ (3ø only)	375⁴ (3ø only)	10/3.3 3.3/ø (3ø)	2.2/ø <sup>4</sup> (3ø only)	1.66/ø <sup>4</sup> (3ø only)	1.33/ø <sup>4</sup> (3ø only)			
320LMX		125/270	-	-	-	10/6	-	-	-	20.00- 5000		5U
320LMXT	2000	135/270 135/234 (3ø)	202/404 202/350 (3ø)	270/540 270/468 (3ø)	338/600 338/585 (3ø)	18/6 6/ø (3ø)	12/4 4/ø (3ø)	9/3 3/ø (3ø)	7.2/2.4 2.4/ø (3ø)	3000		8U
345LMX		135/270	-	-	-	36/12	-	-	-			8U
345LMXT	4500	135/270 135/234 (3ø)	202/404 202/350 (3ø)	270/540 270/468 (3ø)	338/600 338/585 (3ø)	12/ø (3ø)	24/8 8/ø (3ø)	18/6 6/ø (3ø)	14.4/4.8 4.8/ø (3ø)		3ø	11U
360LMX		135/270	-	-	-	48/16	-	-	-			8U
360LMXT	6000	135/234 (3ø)	202/404 202/350 (3ø)	270/540 270/468 (3ø)	338/600 338/585 (3ø)	16/ø (3ø)	32/10.7 10.7/ø (3ø)	24/8 8/ø (3ø)	19.2/6.4 6.4/ø (3ø)			11U

NOTES: 1. Rated output power is based on a combination of nominal output voltage, rated current and load power factor. 2. Vmax is maximum RMS output voltage with full rated load applied.

3. Available current will vary with output voltage and power factor. See product datsheets. Values shown in table are Rated RMS Current. 4. Requires Mod M99211. See page 8.



# AFX Series - High Power AC, DC and AC+DC Power Sources and Cabinets

### **Standard Features:**

- Three, Split and Single Phase Output Modes
- AC, DC and AC+DC Output
- Constant Power Voltage Range Provides Higher Current at Lower **Voltage Settings**
- DC, 1Hz to 3000 Hz Frequency Range
- Power Levels from 6kVA to 150kVA
- High Current Crest Factor Support
- Compact Size and Power Efficient Operation
- Variable Speed Fan Control and sleep mode for Quiet Operation
- True-RMS metering of volts, amps, and power
- USB, LAN (LXI), GPIB and RS232 Interfaces standard
- PPSC Studio Software Suite & Built-in Web Server Control

### **Available options:**

• Output Transformer (T-Option) for 400VL-Noutput voltage. Requires AFXT version power source



3150AFX - 15KVA











### **Patented Technology**

 UPC Studio Test Manager test sequences for Avionics, Shipboard and IEC 61000-4 Compliance Test

#### AFX Models - One, Split & Three Phase Output Rated Voltage Max<sup>2</sup> Output Power<sup>1</sup> (Vrms/Vdc) Current<sup>3</sup> (Max) Frequency4 **AC Input** Height AC 1 AC 2 & 3 DC 1 DC 3 AC/DC **MODEL** (VA/W) Phase Phase Output Outputs (Hz) **360AFX** 6000 50 A 16.7A/phs 50.0 A 16.7 A **390AFX** 9000 75 A 25.0 A/phs 62.5 A 21.0 A 3120AFX 12000 100 A 33.3 A/phs 62.5 A 21.0 A **4U Chassis** 7" / 178 mm 3150AFX 15000 125 A 41.7 A/phs 62.5 A 21.0 A 208-240Vac, 3ø 3180AFX 18000 150 A 50.0 A/phs 125.0 A 41.7 A AC: 0 - 300<sup>2</sup> DC,15.00-1200 24000 200 A 66.7 A/phs 125.0 A 41.7 A 380-480Vac, 3ø 3240AFX (0 - 333) $(1.0 - 3000)^4$ DC: 0 - ±425 3300AFX 30000 250 A 83.4 A/phs 125.0 A 41.7 A 15U Cabinet 3450AFX 45000 375 A 125 A/phs 187.5 A 62.5 A 3600AFX 60000 500 A 166.7 A/phs 250 A 83.3 A 3750AFX 75000 625 A 208.3 A/phs 312.5 A 104 A 28U Cabinet 380-480Vac, 3ø 3900AFX 90000 750 A 250 A/phs 375 A 125 A

NOTES: 1. Rated output power is in 3 or 1 phase mode, nominal output voltage, rated current. Contact Pacific for higher power models.

- 2. Vmax is maximum AC RMS or DC output voltage with full rated load applied. Extended voltage range to 333Vac L-N/576VL-L.
- 3. Values shown in table are Rated RMS or DC Current. Shown for 1 phase AC mode or single output DC mode and per phase for 3 & 2 phase AC mode or per output for DC mode.
- 4. Full rated Frequency range is 15Hz to 1200Hz. Extended Frequency range is 1Hz to 3000Hz with some voltage and or power derating.

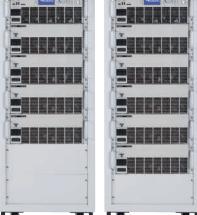


390AFX - 9kVA/9kW





3150AFX - 15kVA/15kW



















3180AFX - 18kVA/18kW

3240AFX - 24kVA/24kW

3300AFX - 33kVA/33kW

3450AFX - 45kVA/45kW

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3600AFX - 60kVA/60kW

3750AFX - 75kVA/75kW

3900AFX - 90kVA/90kW



# **ADF Series - Modular High Power Frequency Converters**

#### **Standard Features:**

- Available Single phase or Three/ Split phase Output models
- AC Sine wave Output
- Constant Power Voltage Range Provides Higher Current at Lower **Voltage Settings**
- 45 Hz to 500 Hz Frequency Range
- Power Levels from 15kVA (4U unit) to 90kVA (19" Cabinets)
- High Current Crest Factor Support
- Compact Size and Power Efficient Operation
- Variable Speed Fan Control and sleep mode for Quiet Operation
- True-RMS metering of volts, amps, and power
- USB, LAN (LXI), GPIB and RS232 Interfaces standard



3150ADF - 15KVA











# **Available options:**

### **Patented Technology**

- $\bullet$  Option F: Extends frequency range to 45 Hz  $\sim$  1200 Hz
- Option V: Extends Voltage range to 333Vac LN/576Vac LL

ADF Mode	ADF Models - Single 19" Rack Mount Units or 19" Cabinets												
	Rated Power <sup>1</sup>	Voltage Max² (Vrms)	Current p	er Phase³ (Max)	Output Frequency <sup>4</sup>	AC Input	Height						
MODEL	(VA/W)	AC	1 Phase	2 & 3 Phase	(Hz)								
1150ADF	15000		125.0 A	-		200 240\/5 = 2 =	4U Chassis						
3150ADF	15000		-	41.7 A			7" / 178 mm						
1300ADF	30000		250.0 A	-		208-240Vac, 3ø or							
3300ADF	30000		-	83.3 A	4F F00	380-480Vac, 3ø	18U Cabinet						
1450ADF	45000	0 - 300 <sup>2</sup>	375.0 A	-	45-500 (15 - 1200) <sup>4</sup>	300-400 vac, 30	160 Cabinet						
3450ADF	45000		-	125.0 A/phs	(13 - 1200)								
3600ADF	60000		-	166.7 A/phs									
3750ADF	75000		-	208.3 A/phs		380-480Vac, 3ø	28U Cabinet						
3900ADF	90000		-	250.0 A/phs									

NOTES: 1. Rated output power is in 3 or 1 phase mode, nominal output voltage, rated current. Contact Pacific for higher power models.

- 2. Vmax is maximum AC RMS or DC output voltage with full rated load applied. Option V: Extended voltage range to 333Vac L-N/576VL-L.
- 3. Values shown in table are Rated RMS. Shown for 1 phase for 1xxxADF models and per phase for 3 & 2 phase AC mode for 3xxxADF models
- 4. Full rated Frequency range is 45Hz to 500Hz. Option F: Extended Frequency range is 15Hz to 1200Hz

# AZX Series - High Power Regenerative AC & DC Power Sources / Grid Simulators

#### **Standard Features:**

- Bidirectional, Regenerative 4 Quadrant Operation
- Three, Split and Single Phase Output Modes
- AC, DC and AC+DC Output Modes
- Dual Constant Power Voltage Ranges, 440VLN / 760vLL Vac or ±650Vdc Max.
- DC, 15Hz to 1000 Hz Frequency Range
- Power Levels from 30kVA to 200kVA

- High Current Crest Factor Support
- Variable Speed Fan Control for Quiet Operation
- Precision metering of volts, amps, and power
- USB, LAN (LXI), GPIB and RS232 Interfaces standard
- PPSC Studio Software Suite & Built-in Web Server Control

AZX Models	Rated Power <sup>1</sup>	Voltage Max² (Vrms/ Vdc)					
MODEL	(kVA/kW)	AC/DC	High AC Rng	Low AC Rng	High DC Rng	Low DC Rng	No. Cabinets
3300AFX	30	160 1101	45 Arms	90 Arms	30 Adc	60 Adc	1
3500AFX	50	AC:0 - 440Vln 0-225Vln	75 Arms	130 Arms	50 Adc	100 Adc	1
31000AFX	100		150 Arms	260 Arms	100 Adc	200 Adc	2
31500AFX	150	DC:0 - ±650Vdc 0 - ±335Vdc	225 Arms	390 Arms	150 Adc	300 Adc	3
32000AFX	200	0-±333VUC	300 Arms	520 Arms	200 Adc	400 Adc	4





# **MS Series - High Power Frequency Converters**

#### **Standard Features:**

- Solid State Frequency Converter
- 62.5 KVA/50 KW AC Power Output per Cabinet
- Output Voltage 0-120VL-N / 0-208VL-L
- Single Phase, Split Phase or Three Phase Configurations
- 50Hz, 60Hz or 400 Hz Frequency Settings
- Adjustable Frequency Range 47Hz to 500Hz
- Easy Parallelling for Higher Power Output to 1750A/phase
- Rugged Industrial Construction and Power Efficient Operation
- True-RMS metering of volts, amps, and power

### **Available options:**

- Output Transformers for Higher Voltage Ranges
- SCU/UPC32 Advanced Controller with 20Hz 500Hz Capability
- UPC Studio Software Suite





# **ECTS2 Series - EMC Harmonics & Flicker Test Systems**

### **Support Test Standards:**

#### **EMC Emissions Tests:**

IEC 61000-3-2 Harmonics Emissions

IEC 61000-3-12 Harmonics Emissions

IEC 61000-3-3 Flicker Emissions IEC 61000-3-11 Flicker Emissions

### **EMC Immunity Test Software:**

IEC 61000-4-11 (Option)

IEC 61000-4-13 (Option)

IEC 61000-4-14

IEC 61000-4-17

IEC 61000-4-27 (Option)

IEC 61000-4-28

IEC 61000-4-29 (Option)

IEC 61000-4-34 (Option)

#### **Avionics Test Software:**

RTCA/DO160, Section 16

MIL-STD 704

Airbus ABD0100.1.8 (A380)

Airbus ABD0100.1.8.1 (A350)

Airbus AMD24C (A400M)

Boeing 787B3-0147



ECTS2-3450F 45kVA EMC Test Systems

# **Options**

#### 19" Instrument Cabinets

To protect your valuable equipment and make it easier to deploy in multiple locations in your facility, Pacific Power Source offers custom installation of one or more of its AC Power Sources in a rugged 19" wide rack. Racks are available in different heights to accommodate the power source(s) height and allow for additional instrument space if needed. Highly recommended for multichassis parallel AMX or LMX configurations.

### **Mobile Power Conditioning Unit**

The MPCU is a fully integrated AC Power System mounted in a composite case for transportation and storage. The MPCU can be utilized as a power conditioner, frequency converter, voltage converter, current source, or any number of other applications.

### IEC 60725 Flicker Impedance (Option M6204)

The M6204 unit provides the requisite lumped impedance between the AC Power Source and the Unit UnderTest (UUT) used to test for flicker compliance to IEC 61000-3-3. Meets IEC 60725 impedance standard. Maximum current 16 A per phase. For single and three phase flicker testing. For harmonics and flicker test solutions, refer to the ECTS2 EMC test systems info.

#### Harmonic Analysis & Waveform Synthesis (HAS Option)

The HAS option adds harmonic measurement of both voltage and load current on all output phases to the UPC controller, allowing for detailed analysis of voltage and/or current distortion.

This option also allows the user to easily define harmonically distorted waveforms by entering a combination of harmonic amplitudes and phase angles directly from the front panel.

#### **Programmable Output Impedance (Prog-Z Option)**

The Prog-Z option allows the internal impedance to be adjusted up or downward. To simulate a "softer" AC Source, the output value can be set to a higher positive value. To simulate a much "Stiffer" AC Source, a negative value can be entered for Zo resulting in positive current feedback.

### **Dream Link (DRM Option)**

The DRM option allows multiple AC sources to be frequency synchronized and phase locked together to create polyphase AC power configurations.

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# PRODUCT MODIFICATIONS & CUSTOM SYSTEMS

We realize our catalog products may not always be a perfect fit for your specific applications. For this reason, we offer special modifications (Mods) on most of our catalog products that allow us to specially meet your unique qualifications. Mods can be hardware, firmware of software in nature.

With our rich history of modifications over the last few decades, many product modification requests can be accommodated using existing mods, saving our customers non-recurring engineering cost (NRE). A sample listing of available Mods is shown below.

**M6087:** 600Vac output voltage range for 115LSX. Provides 600Vac, single phase output at 2.5Arms.

**M99167:** Extended output frequency range to 9999Hz for AMX Series with UPC12/32 controller.

M99169: High Current AC Source, 3-phase for contactor testing

**M99211:** 2.2kVA magnetics module for 3-phase AC Source models 312AMX, 315LSX or 320LSX.

**M99219:** Fixed output 115VLN/200VLL, 400Hz, 3-phase frequency converter for MIL-STD-704E compliant AC output.

**M99360:** 400VLN single or three phase magnetics module for use with 345/360LSX or AMX models.

Contact factory for a complete listing of available mods.

In addition to product modifications like the samples listed here, our engineering team can also develop complete custom

products and AC power test systems to your specifications.

If you can't find a good fit in this standard product catalog, please contact our sales department to discuss your AC power test requirements with our experienced application engineers.





Custom multi-unit AC Power system

# **Service and Support**

Pacific Power Source's customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. In addition to receiving the right test equipment, our customers can also count on excellent support before, during and after the sale. With company owned support and service centers around the world, support is never far away. Complete calibration and repair services are offered at our US, European and Chinese manufacturing facilities (see contact info below). Calibrations are to original factory specifications and are traceable to NIST (National Institute of Standards and Technology).

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