AFX Series

AC, DC, AC+DC and DC+AC Power Sources

Single and Three Phase AC Power Sources

All Digital Power Conversion Technology

Extensive Features:

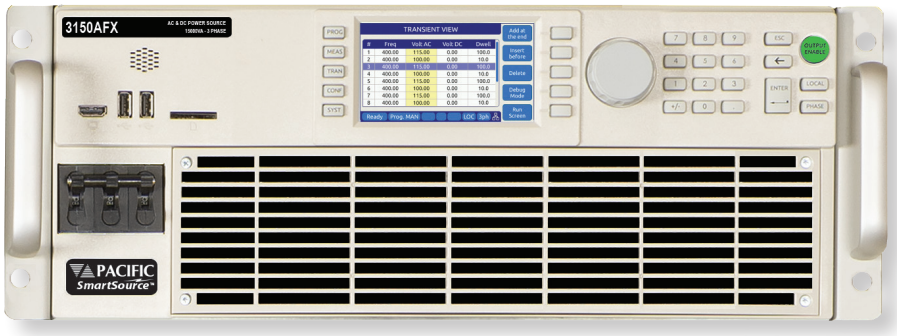
- Three Phase, Split Phase and Single Phase Output Modes
- AC, DC and AC+DC Output Capability
- Uninterrupted Switching between AC and DC Outputs in AC+DC mode
- Constant Power Mode Voltage Range to 300Vac L-N/520Vac L-L or ±425Vdc.
- Series output voltage option for 600Vac LN / 1040Vac LL and ±850Vdc (AFXS)
- No need to switch between high and low voltage ranges
- Frequency Range DC, 15 - 1200Hz, Extended Frequency Range DC, 1Hz to 3000Hz.
- Phase Angle Programming
- Active Three Phase PFC input with Inrush Current Limiting
- Precise Output Voltage and Load Regulation
- Metering of Volts, RMS Current, Peak Current, Apparent Power & True Power on all Phases
- Harmonic Measurements
- Scope Function to capture Voltage & Current waveforms
- Sine, Square, Triangle, Clipped Sine and Arbitrary Waveforms Selections
- Output LIST, PULSE and STEP Mode Transient Programming
- Unique Sleep Modes Save Energy, Reduces needless Heat Generation and Extends the Life of the Power Source
- Standard USB, LAN, RS232 & GPIB Interfaces
- IEC61000-4-13 Interharmonics Generator Option

6 kVA/kW to 180 kVA/kW

AC: 0-333 VAC L-N 1ø / 0-666VAC L-L 2ø / 0-576 VAC L-L 3ø

DC: -425Vdc to +425Vdc

Frequency: DC, 1 - 3000 Hz



"Innovating Solutions for Control and Monitoring of Power"

GPIB RS232 USB UNIVERSAL SERIAL BUS LAN LXI

PACIFIC POWER SOURCE®

THE POWER OF EXPERTISE

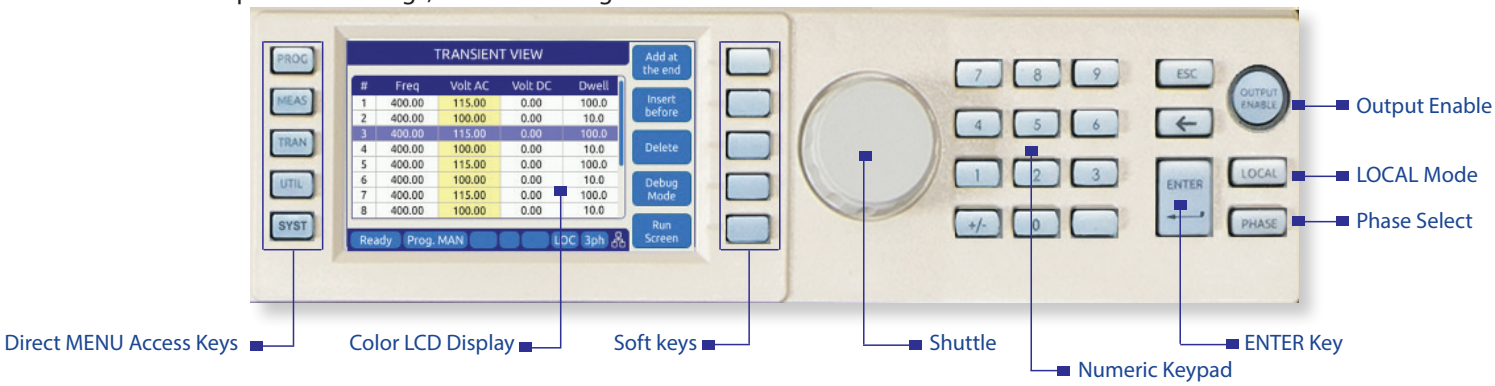
Patented Technology

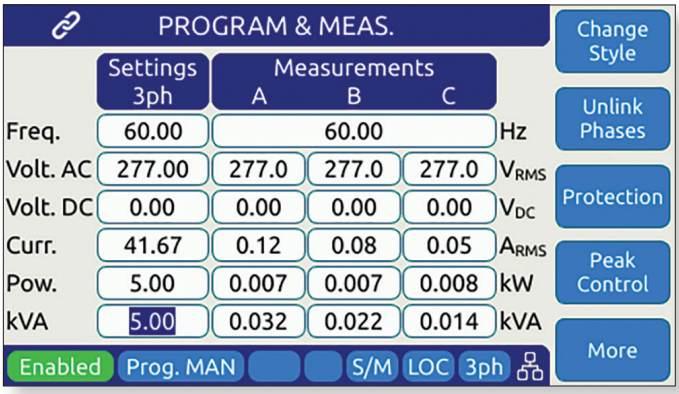
FREQUENCY CONVERSION | AEROSPACE | R & D | MILITARY | MANUFACTURING | CUSTOM

Powerful yet Easy to Use

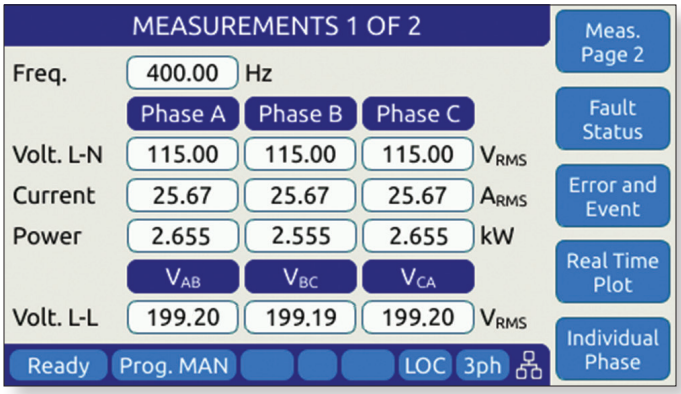
Although the AFX Series of programmable AC and DC power sources offer a wide range of operating modes and features, they are easy to operate through a large color touch screen LCD display and soft key driven menus.

Top level menus are accessible by pressing any of the five menu keys on the left of the display. Entering setup data is accomplished using the numeric keypad or the shuttle. Operating status is shown on screen using various colors to distinguish between setting, measurements and operator warnings, or error messages.





Output Program & Measurement Screen

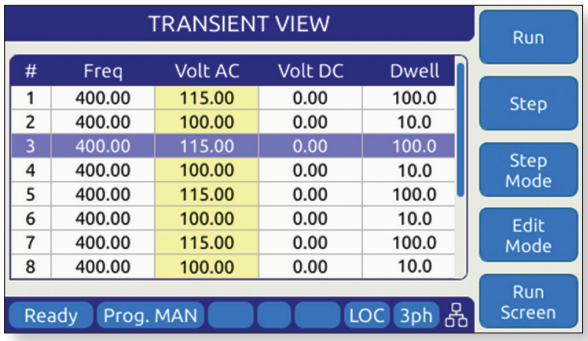


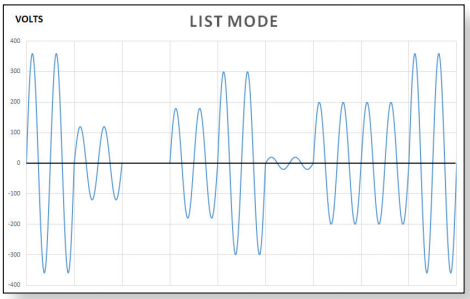
Measurement Only Screen

Transient Programming

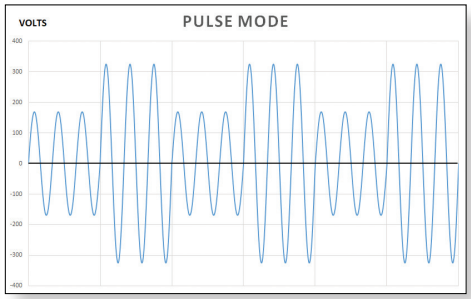
Voltage, Waveform and Frequency output transients are easily created from the front panel using an intuitive spreadsheet style data entry method. Data may be entered for a specific phase or for all three phases at the same time. Transients are supported in AC, DC and AC+DC modes of operation.

The AFX Series supports LIST, PULSE and STEP Mode Transient Types. The user can select the most appropriate type from the front panel or the web browser interface. The images below illustrate the three modes graphically. Transients can be stored in non-volatile memory and easily edited as needed from the front panel. Transient programming and execution can also be accomplished using the built-in web browser interface.

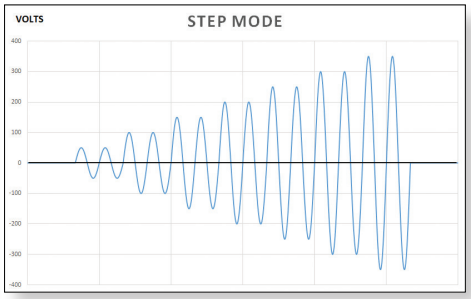




TRANSIENT LIST MODE



TRANSIENT PULSE MODE



TRANSIENT STEP MODE

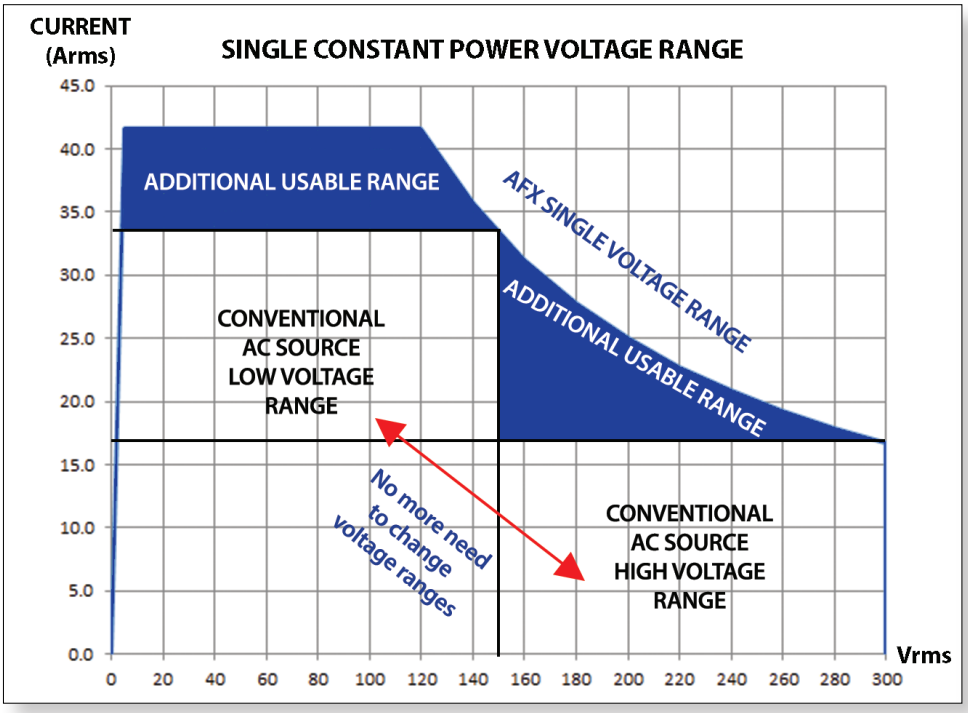
Constant Power Mode AC and DC Voltage Ranges

Many AC power sources use dual voltage ranges to provide either high voltage or high current but not at the same time. By contrast, the AFX Series uses a single voltage range that operates along a constant power curve. This provides both more current at lower voltages and higher voltage at lower currents. A single voltage range eliminates the need to switch between two voltage ranges, thus providing a much wider operating range. This expanded operating area is shown as the blue area in the figure below.

Switching between two voltage ranges on an AC source causes the output to be turned **off** while the output state is reconfigred, resulting in the EUT likely shutting down. This makes it difficult to test universal wide input range AC products. The blue line and shaded area in the chart shows the additional operating range available compared to a conventional AC power source with a 150V/300V range pair.

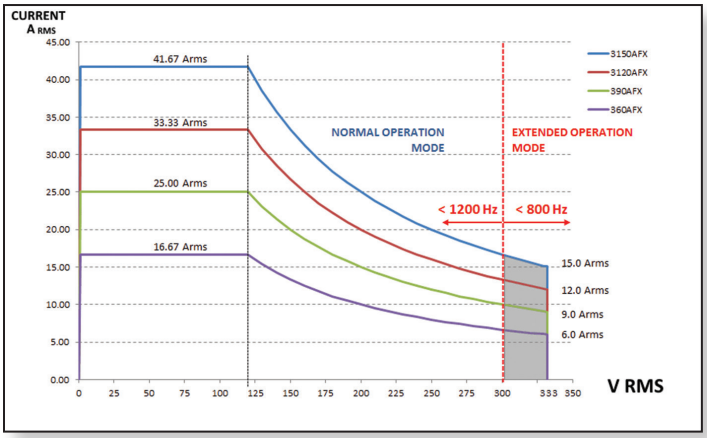
The same applies to DC mode of operation where a constant power 425Vdc voltage range is used to provide both high DC current and DC voltage.

Extended Operating Range for model 3150AFX (15kVA) along a constant 5 kVA per phase power curve for each phase. Other AFX models have same profile but different power & current levels.

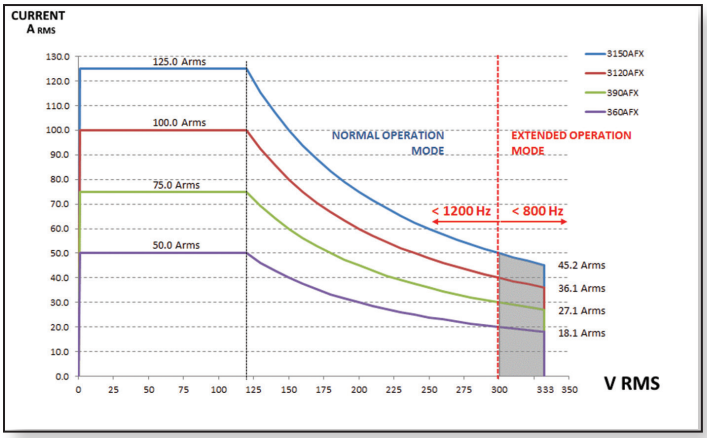


Extended Voltage Range Operation to 333Vac LN

Extended range increases the maximum output voltage to 333Vac L-N / 576Vac L-L over a frequency range from 45Hz to 800Hz. This supports over-voltage testing up to 20% of 480V nominal powered equipment. It also allows testing of single phase universal 90V ~ 265V AC input products to 120% of their maximum nominal input specification.



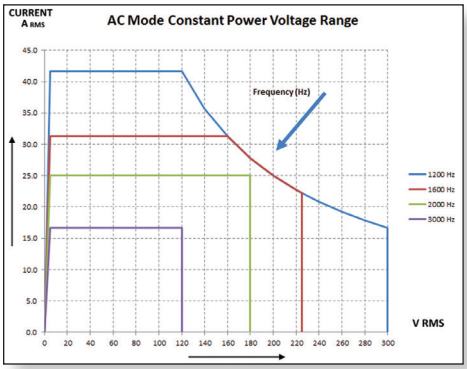
Three Phase Mode Extended Voltage Range Constant Power Profile



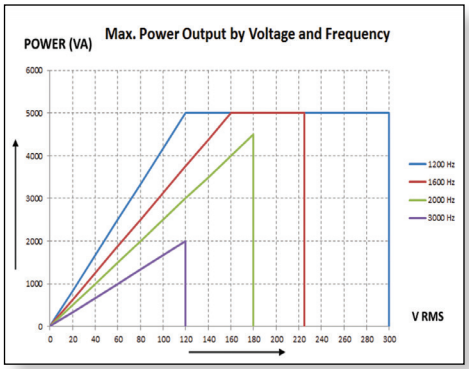
Single Phase Mode Extended Voltage Range Constant Power Profile

Extended Frequency Range

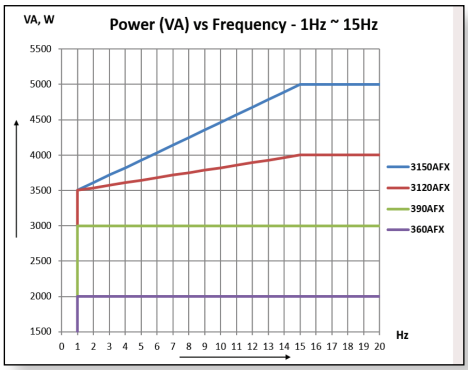
The available extended frequency range mode allows operation beyond the 15 to 1200 Hz full specification bandwidth. Extended mode allows operation from 1Hz to 3000Hz with some power or voltage derating. The allowable voltage, current and power profiles for three phase mode from 1200~3000Hz are shown in the two left side graphs below. For operation below 15Hz (1~15Hz), only power output is derated as shown in the third graph. As is the case for Extended Voltage mode described above, supplemental voltage distortion specifications apply.



Three Phase Mode 1200~3000Hz Freq. Voltage Range



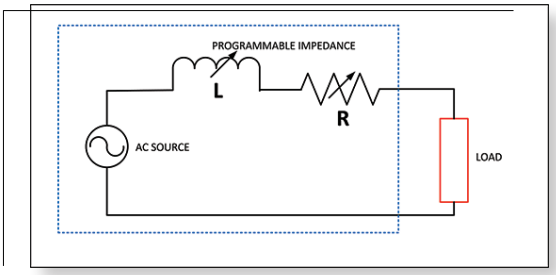
Three Phase Mode 1200~3000Hz Freq. Range Power



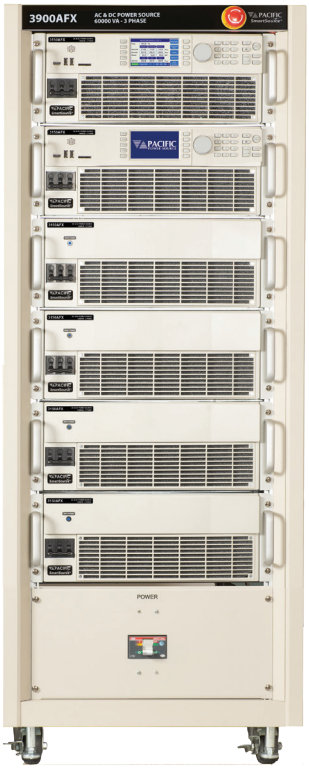
Three Phase Mode 1~15Hz Freq. Range Power

Programmable Output Impedance

Standard programmable Output Impedance (Prog-Z) allows programming of source output R and L impedance. User selectable modes are Real-Time for fast response times or RMS for higher precision. Programmable range values for R and L are the same in both modes. This allows optimal use of programmable output impedance for a wide range of applications.

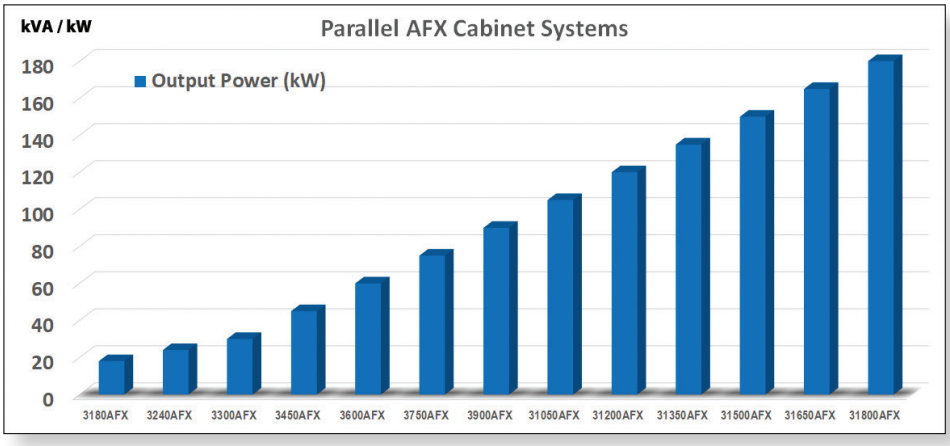


Parallel Operation for High Power Applications



AFX Series power sources support auto-paralleling of two or more units. Paralleled units must have the same power rating. Auxiliary no-controller (AFX-NC) models are available to build cost-effective, high power, parallel systems. Parallel configurations are available in **kit form** for system integrators using their own cabinets. Complete integrated 19" Rack parallel systems are available as well, including input and output power terminals.

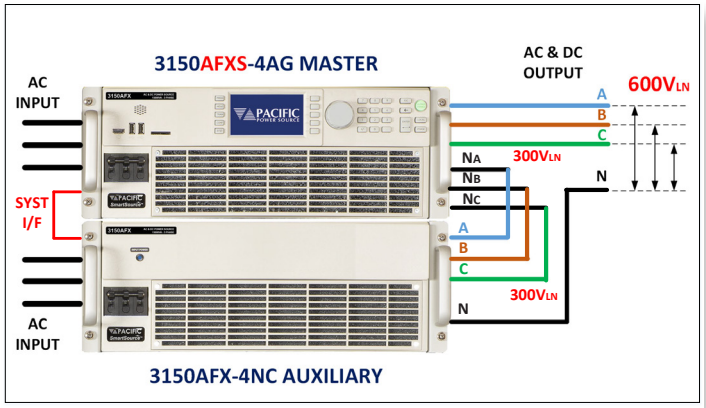
Using one 3150AFX master 15kVA unit and five 3150AFX-NC 15kVA Auxiliary units, a 90kVA system fits in a standard height 19" Cabinet. For redundancy purposes, two of the six power sources can be master units as desired. Paralleled AFX Systems will automatically configure as the Master 3150AFX will detect how many other units are connected. Parallel AFX Series system configurations are available up to 180kVA.



Series Mode Output Configuration (S Option - Not Available in all Regions)

The "S" version of the AFX series allows a pair of AFX power sources to be connected in series to double the available output voltage in both AC and DC modes. This yields output voltages of 600Vac RMS Line to Neutral or 1040Vac Line to Line in three phase mode. In DC mode, ±850Vdc is available. A 30kVA/kW 3300AFXS system is shown below.

For applications where both high and low voltage ranges are required, a Series/Parallel Mode Switch option (SPMS) is available for AFXS Series systems up to 60kVA. The SPMS option allows output wiring configurations to be selected as either series or parallel from the Master unit's front panel, web browser interface or using a bus command from a test program for series systems.



30kVA Series Output Configuration

MODEL	POWER	V RANGE	19" CABINET
3120AFXS	12kVA / kW	0-600 Vac LN 0-1040 Vac LL 0- ±850 Vdc	28U
3180AFXS	18kVA / kW		28U
3240AFXS	24kVA / kW		28U
3300AFXS	30kVA / kW		28U
3600AFXS	60kVA / kW		28U
3900AFXS	90kVA / kW		36U
SPMS	Automatic Series and Parallel Mode Configuration Switch. Max. power level is 60kVA.		

Note: Examples shown here are typical bundled configurations. Other configurations and number of units using 6kVA, 9kVA or 12kVA AFXS models are available on request. Contact your local representative or Pacific Power Source for details.

High Voltage Output Transformer (T Option)

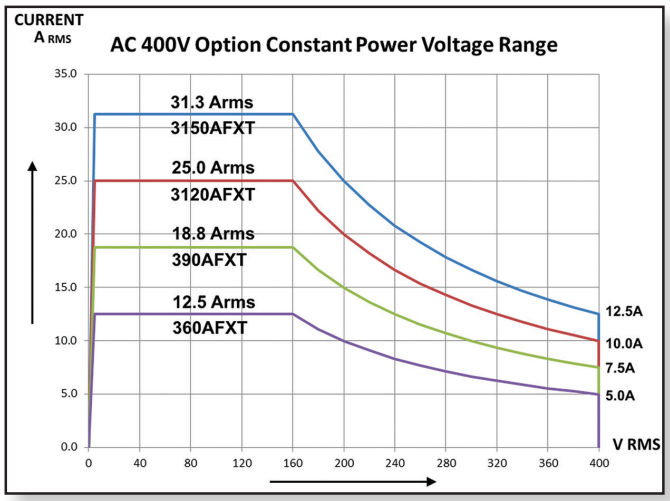
For applications that require an AC output voltage higher than 333Vac LN, an external output transformer option is available. With this T option, an additional AC only mode range is added to the AFX capable of supporting the following output voltage ranges depending on phase mode:

Single Phase	Split Phase	Three Phase
0-400 VL-N	0-800 VL-L	0-400 VL-N/0-692 VL-L

Standard AC and DC voltage ranges remain available. For voltages higher than 400VL-N, contact factory.

Constant Power Mode

The 400V transformer range has a constant power profile. That means full power is available all the way down to 160 Vac L-N/277 Vac L-L on the 400V range. See V-I profiles chart to the right.



Three Phase Mode 400 V Range Constant Power Profile

T Option - Technical Specifications

ELECTRICAL	SPECIFICATIONS
Output Mode	AC Only. No DC or AC+DC modes on T Option range
Voltage Range	0-400 Vac LN / 0-692Vac LL
Resolution	0.01 V
Accuracy	± (0.25% + 0.25* f (kHz)) F.S.
Voltage Sense	Auto scales for T option range
Frequency Range	45Hz - 1000Hz Derating: Voltage < 45Hz, Current > 1000Hz
Constant Power Mode	From 40% to 100% of V range

MECHANICAL	SPECIFICATIONS
Mechanical - T Option Chassis (15kVA rated)	
H x W x D	7.0" x 17.0" x 25.0" 178 x 482 x 635 mm
Weight	170 lbs. / 77.1 kg
Mechanical - Cabinet Systems	
Dimensions / Weight	Refer to AFX Cabinet Systems data sheet

Note 1: Extended frequency ranges are not supported on this optional AC coupled voltage range.

Technical Specifications

PARAMETERS / FUNCTIONS	SPECIFICATIONS			
OUTPUT VOLTAGE				
Modes	AC, DC, AC+DC, DC+AC			
Phase Modes	Single Phase (FORM1), Split Phase (FORM2), Three Phase (FORM3)			
Voltage Ranges	AC: 0 - 300 Vrms LN / 0 - 520 Vrms LL | DC: 0 - 425 Vdc			
Extended Voltage Ranges	AC: 0 - 333 Vrms LN / 0 - 576 Vrms LL | T Option: 400V or 600 | Series Mode: 0 - 600V			
Programming Resolution & Accuracy	0.01 V | ± 0.25% Full Scale			
Waveforms (Max. = 200)	Sine, Square, Triangle, Clipped Sine (THD), Saw Tooth, Triangle, Arbitrary			
DC Offset	< 20 mV dc			
Harmonic Distortion (R load)	< 100 Hz < 0.3% | 100 - 500 Hz < 0.5% | 500 - 1000 Hz < 1.0% | > 1000 Hz < 1.5%			
Switching Noise	< 150 mV RMS | DC to 300 kHz			
Load Regulation	AC Mode: ± 0.02 % (CSC Mode ON)		DC Mode: ± 0.02% (CSC Mode ON)	
Line Regulation	AC Mode: < 0.1% for 10% AC Line input change, < 0.02% with CSC Mode ON			
Voltage Sense - External	External or (Auto) Internal Sense | Max. voltage drop 5% of Full Scale			
Output Isolation	550 Vac			
Voltage Slew Rate	Programmable | AC > 1.0 V/µsec | DC > 3.0 V/µsec			
OUTPUT FREQUENCY				
Frequency Ranges	Standard Range: DC, 15.00 Hz - 1200.0 Hz | Extended Range[1] 1.00 Hz - 3000.0 Hz			
Programming Resolution & Accuracy	0.01 Hz | ± 0.01%			
Output Current				
Current Limit	RMS Mode & Peak Current Mode			
Range	RMS: See Model table page 9		Peak Current: 104 Apk/phs max per AFX unit	
Crest Factor	360AFX: 6.3:1 | 390AFX: 4.16:1 | 3120AFX: 3.12:1 | 3150AFX: 2.5:1			
Programming Resolution & Accuracy	0.01 Arms | ± 0.5% of Full Scale			
Current Protection Modes	Constant Current (CC) or Output Trip (CV)			
Current Overload Mode	Allows 130% of max. RMS current for up to 2.0 secs before CP is triggered when enabled			
OUTPUT PHASE ANGLES (FORM2 & FORM3)				
Phase Angle Range & Resolution	0.0° - 359.9° | 0.1°			
PROGRAMMABLE IMPEDANCE (Per unit, including parallel units)				
Modes	Real-time mode, RMS mode			
Resistance (R)	1 Phase & 3 Phase:	± 10 Ω	2 Phase:	± 20 Ω
Inductance (L)	1 Phase & 3 Phase:	0 - 2 mH	2 Phase:	0 - 4 mH
PROTECTIONS				
Available Protection Settings	Over Current fold-back or trip | Prog. Peak Current Limit | Power fold-back or trip | App. Power fold-back or trip | Over Voltage trip | Over Temperature trip			
Over Voltage Protection Range	0 ~ 105% of voltage range			
AC Input Voltage	Over Voltage & Under Voltage, ±15% from Nominal			

Footnotes:
1: Power restrictions apply below 15Hz and Voltage and Power restrictions apply above 1200Hz.

Technical Specifications (continued)

PARAMETERS / FUNCTIONS	SPECIFICATIONS			
MEASUREMENTS	**Range**	**Resolution**		**Accuracy**
AC Voltage (Vrms)	0–350V_{LN}/0-600V_{LL} (2)	FP: 10 mV / Bus: 1 mV		± 0.25% F.S.
AC Current (Arms)	See Table page 9	FP: 10 mA / Bus: 1 mA		± 0.5% F.S. (3)
Current Crest Factor	1.00 - 5.00	FP: 0.01 / Bus: 0.001		± 2.0% F.S. (3)
Power (kW)	See Table page 9	FP: 1 W / Bus: 0.1 W		± 1.5% F.S. (4)
Apparent Power (kVA)	See Table page 9	FP: 1 VA / Bus: 0.1 VA		± 1.5% F.S. (4)
Power Factor	0.00 - 1.00 (4)	FP: 0.01 / Bus: 0.001		-
DC Voltage (Vdc)	0 – 440 Vdc (5)	FP: 10 mV / Bus: 1 mV		± 0.25% F.S.
DC Current (Idc)	See Table page 9	FP: 10mA / Bus: 1mA		± 0.5% F.S. (3)
TRANSIENT FUNCTIONS				
Programming	200 Steps / 400 Segments, LIST, PULSE & STEP Modes, Frequency, Volt AC, Volt DC, Waveform, Ramp Time, Dwell Time. Time range: 0.1 - 10000000.0 ms, Time resolution 0.2 ms			
Execution	Run from step # to step #, Run, Step, Restart, Stop			
Program Storage	Non-volatile, 100 Programs + Transients			
ANALOG I/O (DB25 Connector Rear Panel)				
Analog Inputs (4)	AI1, AI2, AI3:	Voltage A, B, C	AI4:	Frequency
Range, Accuracy, Impedance	0 - 10Vdc for 0 - F.S.	± 0.1% F.S.	10 kOhm	
Analog Outputs (4)	AO1, AO2, AO3:	Vmeas A, B, C	AO4:	Pmeas All Phases sum
Range, Accuracy, Impedance	0 - 10Vdc for 0 - F.S.	± 0.1% F.S. into 5kΩ	5 kOhm	
DIGITAL I/O (DB25 Connector Rear Panel)				
Digital Inputs - Fixed (3)	Remote Inhibit, Transient Trigger, Phase Sync			
Digital Inputs - User (3)	DI1, DI2, DI3, Functions are user defined			
Digital Outputs - Open Collector (2)	External Relay Control to change output FORM, Relay Control for T Option			
Digital Outputs - TTL, Fixed (2)	Output Relay / Transient / Function Strobe / Phase Sync			
Digital Outputs - TTL, User (2)	DO1, DO2			
Output Voltage Levels	Low < 0.4V, High > 4.6V			
AC MAINS INPUT				
Mains Voltage Input	4 Wire, L1, L2, L3 and PE			
Frequency	47 - 63 Hz			
Input Voltage Range	-2 models:	208 ~ 240Vac ±10%	-4 models:	380 ~ 480Vac ±10%
	360AFX (6kW)	**390AFX (9kW)**	**3120AFX (12kW)**	**3150AFX (15kW)**
Nominal Phase Current -2 @ 208V	23 Arms	33 Arms	43 Arms	51 Arms
Nominal Phase Current -4 @ 400V	13 Arms	18 Arms	24 Arms	27 Arms
Nominal Phase Current -4 @ 480V	11 Arms	14 Arms	20 Arms	23 Arms
Peak Inrush Current	< 1.5 x Irms			
Input Power Factor	> 0.9			
Efficiency	> 85%			

Footnotes:

2: Voltage range is re-scaled as needed when T Option unit is connected
3: For RMS Currents above 2.0 A
4: For Power levels above 100 W
5: Range = 0 - 880 Vdc in Split phase mode

Technical Specifications (continued)

PARAMETERS / FUNCTIONS	SPECIFICATIONS			
REMOTE CONTROL INTERFACES				
Standard Interfaces	USB Type B, LAN, GPIB / IEEE488, RS232, all on rear panel			
LAN / Ethernet Interface	LXI compliant, Ethernet, RJ45, TCP/IP Protocol, Telnet Protocol Command Line			
GPIB Functions	IEEE488,1, IEEE488.2 (2003 incl., NI HS488) IEC 60488-1, IEC 60488-2 (2004) Functions: SH1, AH1, T6, L3, SR1, RL1, DC1, DT1			
WIFI (Optional)	Optional external USB connected WIFI adapter available.			
ModBus TCP (Optional)	Uses Power Source"s LAN interface to connect to CANopen Fieldbus			
CAN/CAN-FD (Optional)	Uses USB to CAN-FD adapter to connect to CAN network			
ENVIRONMENTAL				
Cooling	Variable speed fan cooled, front intake, rear exhaust			
Audible Noise @ 1 meter distance	Standby Mode:	46 dBA	Full Power:	85 dBA typical
Energy Saving Modes	Standby Mode:	Output Stages OFF	Sleep Mode:	All power stages OFF
Temperature	Operating:	0 to 40 °C 32 to 104 °F	Storage:	-20 to 70 °C -4 to 158 °F
Humidity & Altitude	< 80%, non-condensing		2000 m / 6500 feet	
MISC. SYSTEM FEATURES				
Front Panel Display	Full Color, Touch LCD Display, 4.3" Diagonal size, 480 x 272 Pixels resolution			
USB Ports	2 on Front Panel, 1 on Rear Panel, All Type A			
SD Card	32 GB max. Capacity			
Video Output HDMI	Monitor Out, Front Panel			
DIMENSIONS & WEIGHTS				
Chassis Size H x W x D [6]	7.0" x 17.0" x 25.0"		178 x 432 x 635 mm	
Shipping Package Size H x W x D	20" x 27" x 38"		508 x 686 x 965 mm	
Weight Single 4U Height Unit	Net:	111.2 lbs. / 50.4 kg	Shipping:	151 lbs / 68.5 kg
REGULATORY DATA				
Safety	IEC 61010-1:2010 (Edition 3)			
EMC - Emissions	EN 55011:2009+A1:2010			
EMC - Immunity	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4 -11			
Product Category	EN 61326-1:2013 (Measurement, Laboratory and Control Equipment)			
Agency Approvals	CE Mark NRTL Nemko US/Canada for AFX units made in USA only			
RoHS (DIRECTIVE 2011/65/EU)	Product Category EN50581:2012			

Footnotes:
6: Units can be zero-stacked in 19" EIA cabinet when using optional rack-slides. When using L-brackets, allow 1U space between units.

Model 360AFX - 6kVA/kW

Model 390AFX - 9kVA/kW

Model 3120AFX - 12kVA/kW

Model 3150AFX - 15kVA/kW

Available Standard Model Configurations

AFX Series AC & DC Sources are available in several power levels. Models listed in the table below are rack mount or bench units. Cabinet systems are pre-wired for both input and output power. For other configurations or power levels and cabinet options, contact factory. All models shown here require three phase AC input power.

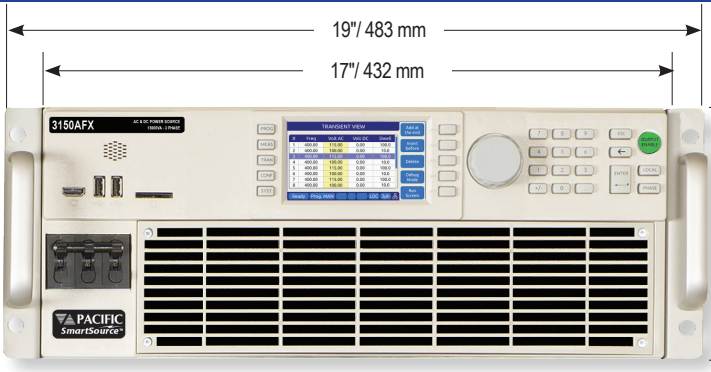
MODEL	Phase Mode	Rated Power[1] AC / DC mode	Voltage Ranges[2] Vac L-N / Vdc	Max. AC/DC Current[2] 3 & 2 Phase Mode	Max. AC/DC Current[2] 1 Phase Mode[3]	Form Factor
360AFX	1, 2 & 3 Phase	6 kVA, kW / 6 kW	0-333 Vac / 0-425Vdc	16.7 Arms / 16.7 Adc	50 Arms / 50.0 Adc	4U Chassis
390AFX	1, 2 & 3 Phase	9 kVA, kW / 9 kW	0-333 Vac / 0-425Vdc	25.0 Arms / 21.0 Adc	75 Arms / 62.5 Adc	4U Chassis
3120AFX	1, 2 & 3 Phase	12 kVA, kW / 12 kW	0-333 Vac / 0-425Vdc	33.3 Arms / 21.0 Adc	100 Arms / 62.5 Adc	4U Chassis
3150AFX	1, 2 & 3 Phase	15 kVA, kW / 15 kW	0-333 Vac / 0-425Vdc	41.7 Arms / 21.0 Adc	125 Arms / 62.5Adc	4U Chassis
3180AFX	1, 2 & 3 Phase	18 kVA, kW / 18 kW	0-333 Vac / 0-425Vdc	50.0 Arms / 41.7 Adc	150 Arms / 125.0 Adc	18U Cabinet
3240AFX	1, 2 & 3 Phase	24 kVA, kW / 24 kW	0-333 Vac / 0-425Vdc	66.7 Arms / 41.7 Adc	200 Arms / 125.0 Adc	18U Cabinet
3300AFX	1, 2 & 3 Phase	30 kVA, kW / 30 kW	0-333 Vac / 0-425Vdc	83.3 Arms / 41.7 Adc	250 Arms / 125.0 Adc	18U Cabinet
3450AFX	1, 2 & 3 Phase	45 kVA, kW / 45 kW	0-333 Vac / 0-425Vdc	125.0 Arms / 62.5 Adc	375 Arms / 187.5 Adc	18U Cabinet
3600AFX	1, 2 & 3 Phase	60 kVA, kW / 60 kW	0-333 Vac / 0-425Vdc	166.7 Arms / 83.3 Adc	500 Arms / 250.0 Adc	28U Cabinet
3750AFX	1, 2 & 3 Phase	75 kVA, kW / 75 kW	0-333 Vac / 0-425Vdc	208.3 Arms / 104 Adc	625 Arms[3] / 312.5 Adc	28U Cabinet
3900AFX	1, 2 & 3 Phase	90 kVA, kW / 90 kW	0-333 Vac / 0-425Vdc	250.0 Arms / 125 Adc	750 Arms[3] / 375.0 Adc	28U Cabinet
Higher	For configurations up to 180kVA/kW, contact factory					

Note 1: Rated power shown is for Three Phase or Single Phase mode operation. For Split Phase mode, rated power is 2/3.

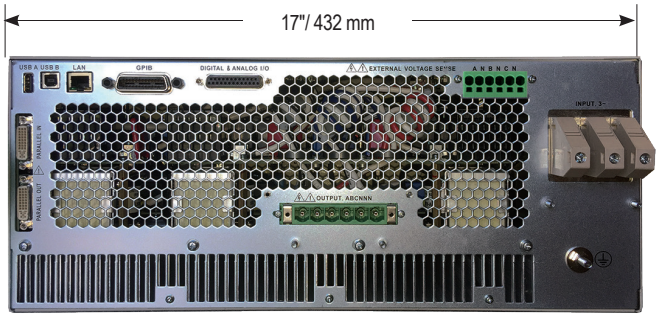
Note 2: Extended Voltage Range Limit. Rated Currents are full specification, nominal values. See specification section for extended operating voltage ranges.

Note 3: Contact factory for cabinet output wiring modifications to support single phase AC mode on cabinets above 60kVA.

Unit Dimensions[4]



The 3150AFX is designed for bench top or 19" equipment rack operation. Shown with included rack mount handles.



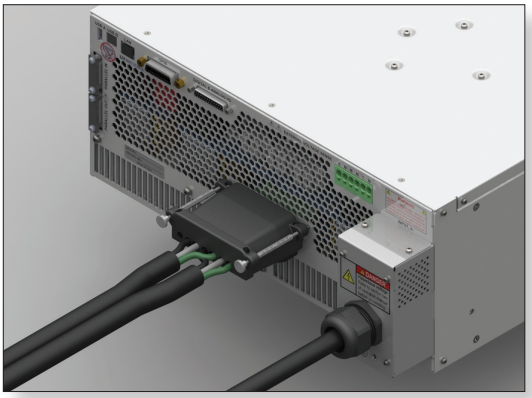
The AFX Rear Panel provides connections for AC Input, AC or DC Output, External Sense, Aux I/O and remote control interfaces. Shown with standard GPIB Interface

Note 4: Units can be zero-stacked in 19" EIA cabinet when using optional rack-slides. When using L-brackets, allow for some space between units.

Safety Cover & Strain Relief Kit Option

An optional Safety Cover and Strain Relief Kit is available. This kit includes covers for AC input connections and AC&DC Output connections. Both covers include wire strain reliefs to prevent accidental release of input or output wiring. This kit is easily installed on the rear panel of the AC Power Source using existing mounting studs. Available for either three phase output configuration or single phase output configuration.

Note that AC input and AC output wiring of adequate gauge and current rating is NOT included in this kit and is to be provided by the end-user or system integrator.



Ordering Information

Standard Models and Cabinet Systems (Refer to Model Number Encoder below)

Bench Models

- ☐ 360AFX
- ☐ 390AFX
- ☐ 3120AFX
- ☐ 3150AFX

Cabinet Systems[1]

- ☐ 3180AFX
- ☐ 3240AFX
- ☐ 3300AFX
- ☐ 3450AFX
- ☐ 3600AFX
- ☐ 3750AFX
- ☐ 3900AFX

Systems available up to 180kVA

Auxiliary Models (No controller)

- ☐ 390AFX-2NC / 390AFX-4NC
- ☐ 3120AFX-2NC / 3120AFX-4NC
- ☐ 3150AFX-2NC / 3150AFX-4NC

Alternate Voltage Range Options

- ☐ S Suffix - 600V Series Output
  Requires pairs of AFX units
- ☐ T Suffix - 400V Transformer Option
  Consult factory for other voltage ranges

Input Voltage (V_{IN})

- ☐ -2 208V - 240Vac, 3Ø ± 10%, 47-63Hz
- ☐ -4 380V - 480Vac, 3Ø ± 10%, 47-63Hz

Export Version

- ☐ E Append "E" postfix

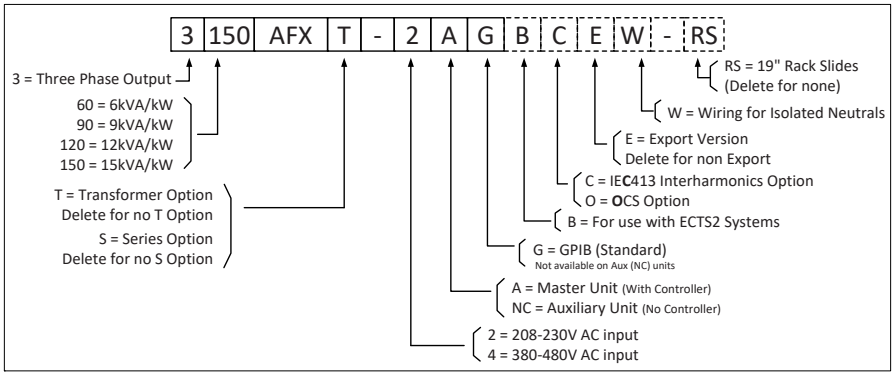
Master Unit with front panel controller

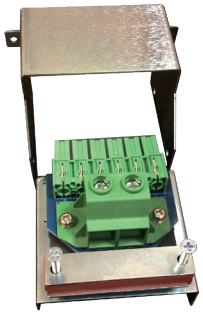
- ☐ A Controller w/Analog & Digital I/O
- ☐ G GPIB Interface

Options

- ☐ B For use with ECTS2 Test Systems
- ☐ C IEC413 Interharmonics Generator
- ☐ DM Dual Master (45kVA or higher models only)
- ☐ O OCS Output Control Switch
- ☐ W Wiring Isolated Output Neutrals

AFX Series Model Number Encoder:
Note: Solid outlined fields must be specified. Dashed outlined fields are optional.





Single Phase Mode Output Adapter Option

Order Example

3150AFX-2AG
- Bench Model, 15 kVA, 3-Phase, AC Power Source with USB, RS232, LAN, GPIB & AUX I/O
- 208Vac 3 Phase Input Voltage

Typical Delivery Items

- AC & DC Power Source
- English Manuals in PDF Format
- Rack Mount Handles
- Certificate of Compliance

Available Accessories

- Output shorting adapter for single phase output mode use. P/N 160086 *(see pic.)*
- Paralleling Cable, 1 Ft. (*Included with Aux models*). P/N 778036
- Rack slides. P/N 703251

Note 1: Cabinet systems consist of one master unit and one or more auxiliary units integrated into a 19 inch EIA instrument grade cabinet. Includes input and output wiring to rear mounted compression terminal blocks. Shown with optional Emergency Power Off (EPO). Other cabinet options available. Customers that require the use of their own cabinets can order system kits without cabinet. Contact factory for ordering information.

Software Options

Windows 10 Software

- ☐ PPSC Test Manager Windows Software

Test Sequences - Avionics[2]

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

Test Sequences - Other[2]

- ☐ IEC Test Suite - Includes IEC 61000-4-11p, IEC 61000-4-14, IEC 61000-4-27p, IEC 61000-4-28, IEC 61000-4-29p and IEC 61000-4-34
- ☐ MIL-STD 1399-300B - US DoD, Ship-board Power, AC Power Groups

Note 2: Test Sequence Options require use of the standard Web Browser Interface via LAN or USB or PPSC Test Manager Windows Software

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