

Introducing the AGX Series

The Industry's most flexible, high performing, and intelligent 3-in-1 Regenerative Grid Simulator, AC/DC Source and Load.

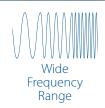














Key Features

- 3-in-1 Grid Simulator, Current Source & Load
 - » 4-Quadrant AC & DC Power Source
- » Regenerative Grid Simulator
- » AC/DC Electronic Load Option
- High Power Density Up to 21kW in 4U; Parallel up to 168kVA/kW per Cabinet, or Multiple Cabinets up to 252kW
- AC, DC and AC+DC Output Capability
- Single, Split, Three-Phase; Multi-Channel Mode
 » Isolated Neutrals Available (Option W)
- Constant Power Voltage Range:
 350Vac L-N/606Vac L-L or ±500Vdc
- High Frequency Range:
 - » DC, 15Hz 1200Hz
 - » Extended Frequency Range 1Hz 3000Hz
- Galvanic Isolation from Facility AC Input to Output and Between Output Phases / Channels
- Silicon Carbide (SiC) Based Technology
- Exceptionally High AC Current
- Waveform capture and Scope display
- SmartSource Suite: Web Interface & Control
- IEC61000-4-13 Inter-Harmonics Test Option



Flexible Control

AGX Series

Regenerative 4-Quadrant AC and DC Source

The AGX Series is a fully regenerative 4-quadrant AC and DC power source that can function as a grid simulator, AC power source, DC power supply, and AC/DC load. The AGX's high-power density provides 6kVA/kW up to 21kVA/kW in a 4U chassis and can parallel up to 168kVA/kW in a single 19" cabinet. Multiple Cabinets can parallel up to 252kVA/kW.

The best-in-class AGX is modular by design and scalable in power. It has highly versatile channel outputs for different dynamic applications, and advanced control and programming capabilities.

The wide selection of power, frequency, and phase angle modes allow you to test a wide range of gridtied products in the renewable energy, electric vehicle charging, aerospace, and industrial markets. Easily test the UUT to regulatory compliance standards.

Application Examples:

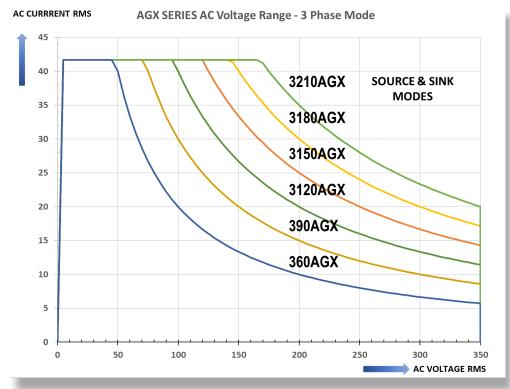
- Aerospace & Defense Power and Compliance Testing
- EV Charging, On Board Chargers (OBC), V2G, V2H and V2X
- Solar PV/Grid-Tied Inverters
- Energy Storage Systems (ESS), Home ESS
- Smart-Grid Simulation
- EMC Compliance Testing

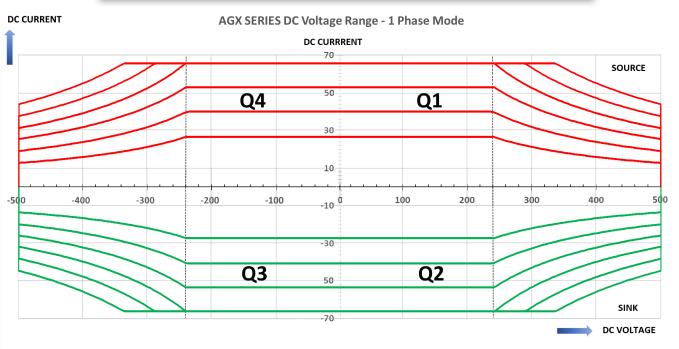


Constant Power Voltage Range

The AGX Series uses a single, constant power voltage range for both higher current at lower voltage and higher voltages at lower currents eliminating the need to switch between voltage ranges.

Typical dual range systems cause temporary output power loss when switching between ranges interrupting power to the unit under test. The AGX's constant power voltage range allows for testing a broad range of conditions and test requirements without interruption of output power.

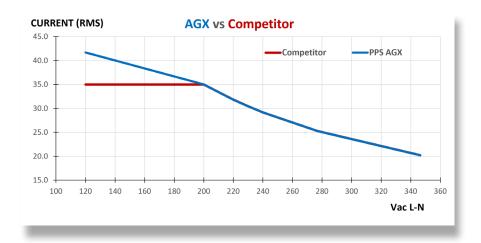






More Current at Low Voltage

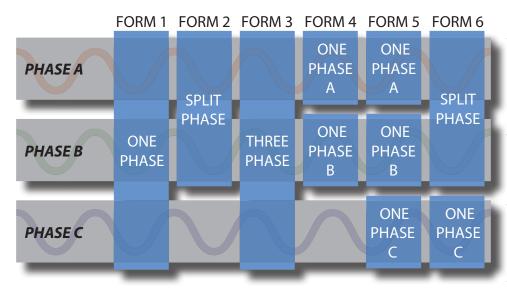
The AGX provides a broader range of current eliminating the risk of over or under sizing the power source. This reduces the need for additional capital investment. The diagram to the right illustrates the AGX's capability to provide 20% more current from 120V to 200V when compared to a typical unit that maxes out at 35A/phase.



Ultimate Flexibility With Six Output Configurations

Simultaneous AC & DC Operation on Single Phases

Automatic Switching of Operation Modes



Note: Mixed Source / Load mode combinations available in Forms 4, 5 and 6.

Flexibly test a wide range of gridtied conditions and EUTs with six different output configurations in either source or load mode. Isolated neutrals give capability to operate in each phase as a different function: voltage source, current source, or load (option).

Forms 1 through 3 are common for three-phase AC sources or loads and single, split or three-phase AC connections. Forms 4 through 6 allow for two or three EUTs' to be tested with the same AGX source or load. This means that three independent single-phase 7 kW EUT's could be tested simultaneously using a single 21kW AGX unit. Form 5 supports different frequencies on each phase simultaneously.



Regenerative Power Saves Significant Energy and Costs

Regenerative AC & DC power sources provide energy efficiency and significant cost savings by returning energy back to the facility or the grid. The AGX produces less heat, ensures a stable testing environment for reliability reducing the need for additional cooling systems. Regenerative bidirectional power flows are critical for simulating real-world conditions in transportation and renewable energy systems.



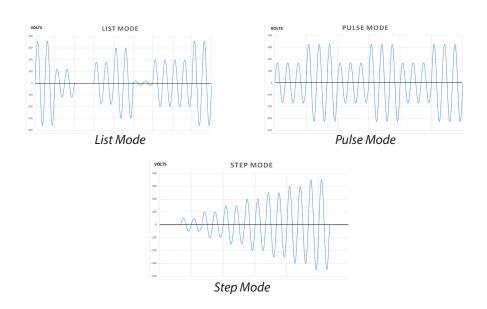
Wide Frequency Range

Unlike traditional grid simulators, the AGX has a wide output frequency range which provides more flexibility. Standard range from 15Hz to 1200Hz. This is ideal for avionics and defense applications that require both 400Hz steady state frequency as well as 360Hz to 800Hz wild frequency ranges. The AGX also offers extended frequency range from 1Hz to 3000Hz.

Powerful Waveform & Measurement Tools

The AGX has a built-in waveform digitizer with fast transient capabilities at 200µsec time resolution supporting LIST, PULSE and STEP modes. Waveform generation includes ten Standard, Sine, Square, Triangle, Clipped and Harmonic generation. Inter-harmonics can be added with Option C.

The waveform digitizer is complimented by a digital measurement system with scope function. Capture advanced measurements and waveforms.





User Friendly Control Options

Multiple integrated control options include:

- Intuitive Touch Screen LCD Display with Soft Key driven Menus
- SmartSource Suite Web Interface
- •LAN, GPIB, RS232 & USB Interfaces, and ModBus (optional)
- Supports external touch screen monitor via Video Output Interface





Simplify Test Automation with SmartSource Suite Remote Control Platform

Easily monitor, control, and manage testing with the AGX's **SmartSource Suite** remote control platform. Use the embedded, web browser interface with real-time control. Access control panels and test sequences on-premises or on any mobile device (laptop, phone, tablet) via secure client access.

- •Full control and measurement capability
- Program settings and measurement read back including digital scope and harmonics data
- Extensive safety protection settings
- Waveform selection, preview and edit modes
- Execution of user's custom test sequences
- Transient data entry and execution screen using a spreadsheet layout

Built-in Galvanic Isolation Reduces Safety Risks

The AGX provides both facility-to-output isolation, and phase to phase or channel to channel isolation. Galvanic isolation provides complete separation between the input and output so there is no electron flow between channels. Channel to channel isolation provides flexibility to use each phase as its own independent power source with full frequency and voltage control. The AGX's fully isolated design reduces safety risks for the operator and prevents unexpected UUT damage by preventing unwanted current or ground loops. This built-in capability doesn't require a transformer which saves significant costs and space.



Fully Test AC Power with 4-Quadrant Load (Option L)

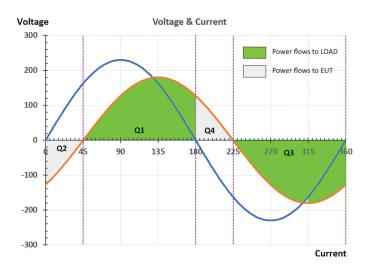
Optional load feature also supports testing PV inverters, V2G, EV Chargers, EVSE, batteries, UPS, and AC/DC power supplies. A key advantage of the AGX Regenerative Load Option is its ability to operate in all four quadrants using programmable phase shift in CC or CS modes.

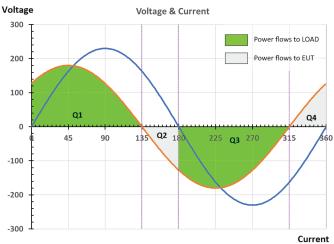
Compared to 2-Quadrant non-regenerative AC loads, the AGX allows simulation of inductive and capacitive loads to fully test AC power sources, as shown in the leading and lagging power factor examples.

The "L" Option adds Regenerative Electronic Load capability providing several AC and DC operating modes to push the boundaries of test environment. Simulate linear and non-linear loads (rectified), inductive and capacitive loads.

AC Modes: Constant Current, Constant Power & Apparent Power, Constant Resistance, Constant Voltage, CC+CR, CC / CS Rectifier Mode 1ø & 3ø

DC Modes: Constant Current, Constant Power, Constant Resistance, Constant Voltage, CR+CC





Current Source Mode



The AGX Series supports Current Source mode. In this mode, AC or DC current is precisely controlled. Current and compliance voltage ranges are identical to this in source or load mode. Transient programming and user defined arbitrary current waveforms are available in this operating mode as well.

Current source mode is useful for testing of protection devices like fuses, switches, transformers or circuit breakers. Maximum current range is available in single phase mode.



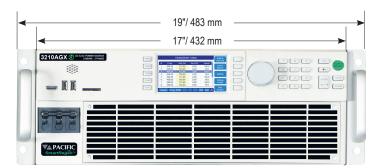
Rack Mount / Bench AGX Models

MODEL	Phase Mode	Rated Power ¹ AC / DC mode	Voltage Ranges ² Vac L-N / Vdc	Max. AC/DC Current per Phase in 3 & 2 Phase Mode	Max. AC/DC Current 1 Phase Mode	Form Factor
360AGX-4	1, 2 & 3 Phase	6 kVA, kW / 6 kW	0-350 Vac / 0-500 Vdc	16.7 Arms / 8.3 Adc	50 Arms / 25.0 Adc	4U Chassis
390AGX-4	1, 2 & 3 Phase	9 kVA, kW / 9 kW	0-350 Vac / 0-500 Vdc	25.0 Arms / 12.6 Adc	75 Arms / 37.8 Adc	4U Chassis
3120AGX-4	1, 2 & 3 Phase	12 kVA, kW / 12 kW	0-350 Vac / 0-500 Vdc	33.3 Arms / 16.7 Adc	100 Arms / 50.0 Adc	4U Chassis
3150AGX-4	1, 2 & 3 Phase	15 kVA, kW / 15 kW	0-350 Vac / 0-500 Vdc	41.7 Arms / 21.0 Adc	125 Arms / 62.5Adc	4U Chassis
3180AGX-4	1, 2 & 3 Phase	18 kVA, kW / 18 kW	0-350 Vac / 0-500 Vdc	41.7 Arms / 21.0 Adc	125 Arms / 62.5Adc	4U Chassis
3210AGX-4	1, 2 & 3 Phase	21 kVA, kW / 21 kW	0-350 Vac / 0-500 Vdc	41.7 Arms / 21.0 Adc	125 Arms / 62.5Adc	4U Chassis

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: For Voltage ranges above 333Vac some frequency and Vthd restrictions apply.

AGX Dimensions & Accessories



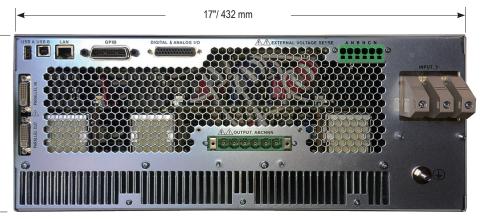
The AGX is designed for bench top or 19" equipment rack operation. Product is shown with included rack mount handles.

Depth of chassis is only 25.0 inch / 635mm.

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

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

7"/ 178 mm (4U)



Safety Cover & Strain Relief Kit Option



This optional kit includes covers for AC input and AC & DC Output connections. Both covers include wire strain relief to prevent accidental release of input or output wiring.

Note: AC input and AC output wiring is NOT included.



Modular Power up to 168kW/333A per Cabinet

The AGX Series provides modular and scalable power to meet changing test requirements. Easily parallel multiple chassis to reach up to 168kW with 333Amps per cabinet. Cabinets can be paralleled up to 252kW. The ease of reconfiguration allows for flexible test set ups and reduces downtime for repairs or maintenance. The units' shallower depth also allows it to fit into typical 31.5-inch / 800.1mm depth cabinets with ample room for air-flow and wiring.

Parallel Systems Installed in 19" EIA Rack Cabinet

MODE	Rated Power ¹ AC / DC mode	Voltage Ranges² Vac L-N / Vdc	Max. AC/DC Current per phase in 3 & 2 Phase Mode	Rack Space
3240AGX-4	24 kVA, kW / 24 kW	0-350 Vac / 0-500 Vdc	66.7 Arms / 33.3 Adc	15U
3300AGX-4	30 kVA, kW / 30 kW	0-350 Vac / 0-500 Vdc	83.3 Arms / 42.0 Adc	15U
3360AGX-4	36 kVA, kW / 36 kW	0-350 Vac / 0-500 Vdc	83.3 Arms / 42.0 Adc	15U
3420AGX-4	42 kVA, kW / 42 kW	0-350 Vac / 0-500 Vdc	83.3 Arms / 42.0 Adc	15U
3630AGX-4	63 kVA, kW / 63 kW	0-350 Vac / 0-500 Vdc	125.0 Arms / 62.5 Adc	15U
3840AGX-4	84 kVA, kW / 84 kW	0-350 Vac / 0-500 Vdc	166.7 Arms / 83.3 Adc	28U
31050AGX-4	105 kVA, kW / 105 kW	0-350 Vac / 0-500 Vdc	208.3 Arms / 104.0 Adc	28U
31260AGX-4	126 kVA, kW / 126 kW	0-350 Vac / 0-500 Vdc	249.9 Arms / 125.0 Adc	28U
31470AGX-4	147 kVA, kW / 147 kW	0-350 Vac / 0-500 Vdc	291.6 Arms / 146.0 Adc	40U
31680AGX-4	168 kVA, kW / 168 kW	0-350 Vac / 0-500 Vdc	333.3 Arms / 167.0 Adc	40U

Note 1: For Split Phase mode, rated power is 2/3.

Note 2: For Voltage ranges above 333Vac some frequency and Vthd restrictions apply.

Contact factory for cabinet output wiring modifications to support single phase AC mode on cabinets above 84kVA.











3420AGX-4 Cabinet 42kVA/42kW

3630AGX-4 Cabinet 63kVA/63kW

3840AGX-4 Cabinet 84kVA/84kW

31050AGX-4 Cabinet 105kVA/105kW 31680AGX-4 Cabinet 168kVA/168kW



Technical Specifications

MODEL:	360AGX-4	390AGX-4	3120AGX-4	3150AGX-4	3180AGX-4 ¹	3210AGX-4 ¹
Modes of Operation						
Grid Simulator, AC and/or I	DC Power Source,	AC and/or DC Cui	rent Source. Elect	ronic Load option	nal.	
AC Output	<u>, </u>			<u> </u>		
Phase Modes (Form)	1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3
Maximum Power (Total)	6 kW/kVA	9 kW/kVA	12 kW/kVA	15 kW/kVA	18 kW/kVA ¹	21 kW/kVA ¹
Per Phase	2 kW/kVA	3 kW/kVA	4 kW/kVA	5 kW/kVA	6 kW/kVA	7 kW/kVA
Voltage	,					7 1117/1171
Range			0 - 350 VLN /	0 - 606 Vu		
Resolution			0.0			
Accuracy			± 0.25			
Harmonic Distortion						
(Vthd) R Load	< 100	Hz < 0.3% 100 Hz	to 500Hz < 0.5%	500 to 1000 Hz <	1.0% > 1000 Hz <	< 1.5%
Line Regulation			< 0.1% for 10%	Line Change		
Load Regulation			± 0.02% (C			
Phase Angle - Range - Phase B, C			0 - 35			
Phase Angle Resolution			0.1			
Maximum RMS Current			0.1			
3 & 2 Phase modes	16.67 A	25.00 A	33.33 A	41.67 A	41.67 A	41.67 A
1 Phase mode	50.00 A	75.00 A	100.00 A	125.00 A	125.00 A	125.00 A
Current Crest Factor	6.3:1	4.2 : 1	3.1:1	2.5 : 1	2.5 : 1	2.5 : 1
Frequency ²	0.3 . 1	4.2 . 1	3.1.1	2,3 , 1	2.3 . 1	2.3 . 1
•			15.00 – 12	200 0 H-		
Range Extended Range			1.00 - 30			
Resolution / Accuracy			0.01 Hz /	± 0.01%		
DC Output	1 2 2	1 2 2	1 2 2	1 2 2	1 2 - 4 2	1 2 2
Phase Modes (Channels)	1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3	1, 2 or 3
Maximum Power (Total)	6 kW	9 kW	12 kW	15 kW	18 kW	21 kW
Per Channel	2 kW	3 kW	4 kW	5 kW	6 kW	7 kW
Voltage			0 .50	001/		
Range			0 - ±50			
Resolution			0.0			
Accuracy			± 0.25	% F.S		
Maximum DC Current						
3 & 2 Phase modes	8.3 ADC	12.6 ADC	16.7 ADC	21.0 ADC	21.0 ADC	21.0 ADC
1 Phase mode	25.0 Adc	37.8 ADC	50.0 Add	62.5 Add	62.5 Adc	62.5 Adc
AC Input						
Input Voltage Range		380Vac – 480Va	nc ± 10%, 4 Wire, L	.1, L2, L3 and PE		
Frequency		I	47 - 63 Hz	I	T.	
Nominal Phase Current @ 400Vac	10 Arms	14 Arms	19 Arms	24 Arms	29 Arms	34 Arms
Nominal Phase Current @ 480Vac	8 Arms	12 Arms	16 Arms	20 Arms	24 Arms	28 Arms
Input Power Factor	>0.99	>0.99	>0.99	>0.99	>0.99	>0.99
Efficiency					>0.90	>0.90
Measurements						
Voltage RMS		C) – 350 Vln / 0-606	$V_{LL}/\pm 0.25\%$ F.S.		
Range / Accuracy						
Current RMS	$17.0 \text{ A} / \pm 0.5\% \text{ F.S.}$	$25.0 \text{ A} / \pm 0.5\% \text{ F.S.}$	$34.0 \text{ A} / \pm 0.5\% \text{ F.S.}$	$42.0 \text{ A} / \pm 0.5\% \text{ F.S.}$	$42.0 \text{ A} / \pm 0.5\% \text{ F.S.}$	42.0 A / \pm 0.5% F.S.
Range / Accuracy						
Power	$2 \text{ kW} / \pm 1.5 \% \text{ F.S.}$	$3 \text{ kW} / \pm 1.5 \% \text{ F.S.}$	$4 \text{kW} / \pm 1.5 \% \text{F.S.}$	$5 \text{ kW} / \pm 1.5 \% \text{ F.S.}$	$6 \text{ kW} / \pm 1.5 \% \text{ F.S.}$	7 kW / \pm 1.5 % F.S.
Range / Accuracy						
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				veform, Ramp	
Execution	1	to step #, Run, Ste				
LACCULOTI	пан пош экср #	to step ", nuii, ste	ρ, πεσιαιτ, στορ			

Note 1: Maximum Power rating is reduced below 40Hz on 3180AGX and 3210AGX models. Note 2: Resolution and accuracy are limited in Option E, Export Version.



Technical Specifications

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 US	B connected WIFI ada	pter 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					
Analog I/O (DB25 Connector Rea	ar Panel)					
Analog Inputs (4)	Al1, Al2, Al3:	Voltage A, B, C	Al4:	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.	\pm 0.1% F.S. into 5k Ω	5 kOhm			
Digital I/O (DB25 Connector Rea	r Panel)					
Digital Inputs - Fixed (3)	Remote Inhibit, Trans	sient Trigger, Phase Sy	nc			
Digital Inputs - User (3)	DI1, DI2, DI3, Functio	ns are user defined				
Digital Outputs - Open Collector (2)	External Relay Contro	ol to change output F	ORM, Relay Control fo	r T Option		
Digital Outputs - TTL, Fixed (2)	Output Relay / Trans	ient / Function Strobe	/ Phase Sync			
Digital Outputs - TTL, User (2)	DO1, DO2					
Output Voltage Levels	Low < 0.4V, High > 4	.6V				
Environmental						
Cooling	Variable speed fan co	ooled, front intake, rea	ır exhaust			
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					
Miscellaneous System Features						
Front Panel Display	Full Color, Touch LCD	Display, 4.3" Diagona	l 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	Monitor Out, Front Panel					
Dimensions & Weights	Dimensions & Weights					
Chassis Size H x W x D	7.0" x 17.0" x 25.0" / 1	78 x 432 x 635 mm	Shipping: 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 Compliance						
Safety	IEC 61010-1:2010 (Edition 3)					
EMC - Emissions / Immunity	EN 55011:2009+A1:2010 / EN 61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8 and EN 61000-4 -11					
Product Category	EN 61326-1:2013 (Measurement, Laboratory and Control Equipment)					
Agency Approvals	Agency Approvals CE Mark					
RoHS (DIRECTIVE 2011/65/EU)	Product Category EN50581:2012					



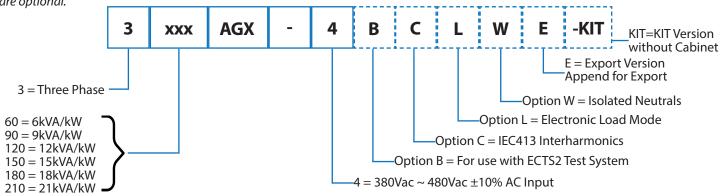
Ordering Information

AGX Series Models					
Single Unit Models (Bench or 19" Rack)		Parallel System Kits		Options	
360AGX-4	3150AGX-4	3240AGX-4-KIT	3840AGX-4-KIT	B -For use with ECTS2 Systems	
390AGX-4	3180AGX-4	3300AGX-4-KIT	31050AGX-4-KIT	C -IEC 61000-4-13 Option	
3120AGX-4	3210AGX-4	3360AGX-4-KIT	31260AGX-4-KIT	L -Electronic Load Option	
		3420AGX-4-KIT	31470AGX-4-KIT	W -Wiring Isolated Output Neutrals	
		3630AGX-4-KIT	31680AGX-4-KIT	E -Export Version	

Auxiliary Models (No Controller)

AGX Series Model Number Encoder:

Note: Solid outlined fields must be specified. Dashed outlined fields are optional.



Order Example 3210AGX-4CLW

 Bench Model, 21 kVA, 3-Phase, AC & DC Regenerative Power Source with USB, RS232, LAN, GPIB & AUX I/O

Typical Delivery Items

- Power Source
- Rack Mount Handles
- Certificate of Compliance

Available Accessories

- Output shorting adapter for single phase output mode use. P/N 160086 (not for W)
- Paralleling Cable, 1 Ft. (Included with Aux NC models). P/N 778036
- Rack slides. P/N 703251

Software Options

Test Sequences

- IEC Test Suite Includes IEC 61000-4-11p, IEC 61000-4-14, IEC 61000-4-17, IEC 61000-4-27p, IEC 61000-4-28, IEC 61000-4-29p and IEC 61000-4-34
- IEC 61000-4-13 (Option C)
- MIL-STD 1399-300B & -300-1 US
- DoD, Shipboard Power, AC Power Groups
- IEEE 1547.1-2020
- Semi-F47-0706
- KS C 9610-4-11, KS C 9610-4-29

Test Sequences - Avionics

- 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 Sequence Options require use of the standard SmartSource Suite via LAN or USB, or PPSC Test Manager Windows Software. Contact factory for details.



Service & Support

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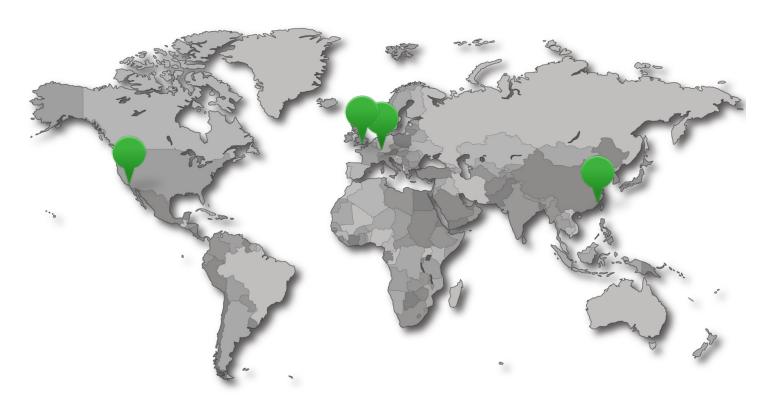
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