

METEK®
PROGRAMMABLE POWER



ELGAR™

Sorensen™

**California
Instruments™**

**AC &
DC**

Programmable
Power Supplies
Mini Catalog



The choice of test engineers for deep expertise in AC and DC power supplies, and simulation systems

Manufacturing the world's broadest selection of AC and DC power supplies for more than forty years, AMETEK has produced precision programmable power and power bus simulators for test and measurement needs, ATE systems, R&D, process control, and power conditioning across diverse industries. Its products and services are recognized around the world for robust performance, high quality, reliability, and economic value.

ELGAR[™]

AMETEK's Elgar brand Programmable Power Solutions are custom or quasi-custom configurable systems, which combine products from the broad AMETEK power portfolio with other system components and sophisticated software to solve unique testing requirements including:

- Power sub-systems
- Power conditioning and distribution units
- Turnkey power systems: Satellite Solar Array Simulation

Sorensen[™]

Benchtop and rack mounted Programmable DC power supplies available in over 30 product lines featuring a broad range of output power, voltage and current ratings, as well as input voltage and control options.

Extensive selection of benchtop and rack mounted power supplies featuring high slew rate MOSFET designs, with CC, CV, CP and CR operating modes. High power models offered in both air- and water-cooled versions.

California Instruments[™]

AC sources featuring programmable amplitudes and frequency, ranging from 250VA single Φ benchtop units to 3 Φ systems > 1 MVA with optional high frequency and energy saving regenerative operation for grid simulation and renewable energy test applications. Sophisticated controls and software support generation and application of complex waveforms for avionics testing, including high frequency and DC power.

Asterion AC and DC Power

High Performance AC Source

California Instruments™

California Instruments™ Asterion® Programmable AC, DC & AC + DC Power (500VA - 36000VA, 200 / 400Vac, 250 / 500Vdc)

Performance. Reliance. Brilliance.

The California Instruments Asterion line of AC power sources by AMETEK Programmable Power combines intelligence and flexibility to create an advanced platform of AC solutions. This easy-to-configure design features sophisticated technology for delivering high performance, programmable AC and DC power. Its sleek design packs maximum power density into a low-profile form factor with an intuitive touch screen interface placing that power at your fingertips. Centralized control and unparallelled modularity make Asterion the most adaptable platform on the market.

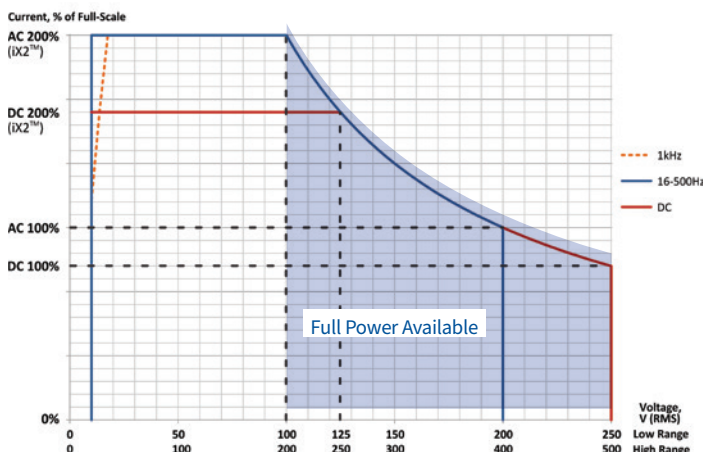


Advanced Features

- High power density in 1U / 2U / 4U / 14U chassis up to 18kVA
- Intuitive touch panel control
- Multi-language display for global operation
- Auto paralleling for higher power
- Single phase 1U models and 1 or 3 phase selectable 2U / 4U / 14U models
- Complete IEC standards and avionic test suites (optional)
- ATE version available in 1U, 2U and 4U models
- Standard LXI LAN, USB and RS232, optional GPIB
- Full remote control via Virtual Panels™

iX2™ current doubling technology

See data sheet for ratings > 1.2kHz



The iX2™ current doubling technology enables output current to increase linearly up to two times the full current as the voltage decreases from range maximum to one-half of range voltage. iX2 technology results in a source that delivers full power over the widest voltage ranges. This eliminates the need to buy overpowered sources just to reach low line current requirements.

Fixed & Autoranging DC Power Supply

Sorensen™

Sorensen™ Asterion® DC Fixed Range & Autoranging Programmable Power Supply with Touch Screen Display

(1.7/3.4/5.0/10kW, 40-400V, 4.3-250A)

The Sorensen Asterion DC Series is the newest addition to the Asterion platform of power testing solutions. The new DC series features two types of product lines: fixed range and autoranging. The fixed range supplies are economical, traditional rectangular IV profile output power supplies with all the enhanced advantages that comes standard with the Asterion platform. The autoranging supplies feature expanded current and voltage range at the full output power level, enabling the ability to satisfy a wider testing need without requiring the purchase of additional models.



The Asterion DC Series, just like the Asterion AC Series, has several operating advantages such as easy auto-paralleling, complete remote programming and control via Virtual Panels GUI, and intuitive front panel touch screen operation.

Advantages:

- High power density in a 1U/2U chassis up to 5 kW/10 kW
- Intuitive touch panel control
- Multi-language display for global operation
- Auto paralleling for higher power
- Full remote control via Virtual Panels

Advanced Intelligent Control

The Asterion DC Series is operated from the intuitive, easy-to-use front panel touch screen display. Quickly access output programming parameters, measurements, configuration and system settings from the touch screen interface. Functions and parameters can be directly selected from the touch screen or by using the encoder selector button. The control resolution is adjusted by a dynamic rate change algorithm that combines the benefits of precise control over small parameter changes with quick sweeps through the entire range.

Additionally, the instrument can be controlled via standard LXI Ethernet and RS232 control interfaces, as well as through the optional GPIB and EtherCAT control interface. The unit can also be controlled remotely via the Virtual Panels GUI.

Sorensen DC Power

Touch Screen Economical High Power DC Power Supply

Sorensen™

Sorensen SGX Programmable Precision High Power DC Power Supply with Touch Screen Display

(4–150kW, 10–1000V, 5–6000A)

The Sorensen SGX Series represents the next generation of high power programmable DC power supplies. The SGX Series is designed for exceptional load transient response, low noise and the highest power density in the industry. With a full 15kW available down to 20V output in a 3U package, the SGX leads the industry in power density. The power density is enhanced by a stylish front air intake allowing supplies to be stacked without any required clearance between units.



Advantages:

- Quickly and expertly control supply with intuitive touch screen.
- High Power Density: up to 15kW in 3U chassis; 30kW in 6U chassis
- Wide Voltage Range: 0-10V up to 0-1000V, from 4kW to 30kW
- Fast Load Transient Response: Protection from undesired voltage excursions
- Low Ripple and Noise
- Parallelable up to 150kW
- Form, fit and function compatibility with previous SG power supplies

At the heart of the SGX is a 4/5kW power module depending on the output voltage. One to six modules can be configured in a single chassis to deliver 4kW to 30kW of power. Combinations of these chassis can then be easily paralleled to achieve power levels up to 150kW. Paralleled units operate like one single supply providing the total system current.

Advanced Intelligent Control

The SGX Series is operated from the intuitive, easy-to-use front panel touch screen display. Quickly access output programming parameters, measurements, sequencing, configuration and system settings from the touch screen interface. Functions and parameters can be directly selected from the touch screen or by using the encoder selector button. The control resolution is adjusted by a dynamic rate change algorithm that combines the benefits of precise control over small parameter changes with quick sweeps through the entire range. Additionally, the instrument can be controlled via LXI Ethernet and RS232 standard control interfaces, as well as through the optional GPIB control interface.

High Power Extensible Programmable DC System

Sorensen™

HPX DC Supply System

Configurable High Power Solution

The Sorensen HPX High Power Extensible, Programmable DC Series from 36kW ~ 240kW, delivers unsurpassed quality & reliable low-noise performance, fast and precise programmability with premium features at an affordable price, all in a convenient rack-mount cabinet with casters.



Advanced Features

- High Power Density: Up to 150KW in a single bay rack-mount cabinet
- Up to 240KW in a dual bay rack
- Fast Load Transient Response: Protection from undesired voltage excursions
- Fast Slew Rate with exceptional rise/fall times for speed-critical applications
- Low Ripple: Suitable for the most sensitive applications
- Low Audible Noise: Temperature controlled variable speed fans
- High accuracy: Voltage/current measurements without external DMMs
- Ethernet is standard
- Options for a single system circuit breaker and emergency power off (EPO) switch

The Flexibility You Want with the Capability You Need in One System

The HPX Series features two modes in one: Automatic constant voltage and constant current mode crossover with protection against hazardous faults. Remote Shutdown (S/D) Interlock provides various external output shutdown capability in case hazardous faults occur. Other features such as External Analog Programming provide increased control and convenience for external programming applications achieved through various external voltage control methods. The HPX also includes Remote Sense for correcting errors from line voltage drops. Sophisticated power conversion technology, with State-of-the-art FET-based high frequency switching technology provides accuracy, exceptional load transient response & low noise in a smaller footprint as compared to other technologies.

Products for Renewable Energy

Regenerative High Power AC Sources

California Instruments™

MX Series With SNK (Sink) Option

MX Series Programmable Power Source with Sink Option facilitates utility interconnection performance and anti-islanding compliance in solar inverter testing.

The MX15 delivers up to 15 kVA of single phase output. The MX22.5, MX30 and MX45 deliver up to 22.5 kVA, 30 kVA and 45 kVA, respectively. These operate using single or three phase output in AC or AC+DC mode. In DC mode, 50% of the AC power level is available.



Regenerative Mode Operation.

In the Regenerative Mode, the MX Series can accept and sink (SNK) power returning from any connected equipment to the utility grid. This power return can be a short-term event or a semi-permanent condition. To handle these occurrences effectively under a wide range of supply voltages, the MX source with the SNK option has a programmable current limit, that is different in the SNK mode from the current limit when sourcing current.

- **Solar Energy/Power Grid Simulation**
- **Power Grid Modeling** (Unique External Drive (EXTD) option allows the MX or RS to be controlled as hardware In the Loop (HIL) via external waveform inputs from a Real Time Simulator or other source)
- **Avionics Test Ready** (Available avionics test suites include MIL-STD 704, RTCA/DO-160, Boeing & Airbus test suites)
- MIL-STD 1399-300B shipboard power test software
- **IEC 61000 Compliance Test Ready** (Available IEC 61000 test suites include 3-2, 3-3, 3-11, 3-12, 4-11, 4-13, 4-14, 4-17, 4-27, 4-28, & 4-29)

For higher power requirements, the MX90 and MX135 models are available. Multi cabinet MX45 systems always operate in three phase output mode. Available reconfigurable MX90 and MX135 models provide multiple controllers which allow separation of the high power system into two or three individual MX45 units for use in separate applications.

RS Series AC/DC Power Source/Sink

The RS Series has double the power density of the MX Series, providing a compact system for up to 1MVA+ of output. The RS system consists of multiple high power AC and DC power supplies that provide controlled outputs not only for inverter testing, but also many other applications.



- Create, run, save and reload transient programs
- Generate and save harmonic and arbitrary waveforms
- Capture and display output voltage and current waveforms
- Log and display harmonic voltage and current
- Display data bus traffic to and from the AC Source
- Optional Class C Ethernet Interface

Regenerative, Bidirectional Power Solution

Automatic crossover between Source and Sink power mode offers regenerative capabilities in AC, AC+DC and DC modes. Regenerate up to 100% of the rated output power back to the utility grid during sink mode operation.

High Crest Factor

With a crest factor of up to 3.6, the RS Series AC source can drive difficult nonlinear loads with ease. The RS90 can deliver up to 720 Amps of repetitive peak current (150V AC range) per phase to handle high crest factor three phase loads.

Configurations

The RS90 delivers up to 90kVA of AC or AC + DC power. In DC mode, 50% of the AC power level is available for higher power requirements. The RS180, RS270, RS360, RS450 and RS540 models are available. The available MB option provides multiple controllers which allow separation of the high power system into individual RS90 units for use in separate applications. This ability to reconfigure the system provides an even greater level of flexibility not commonly found in power systems.

Solar Energy Test Systems

ELGAR™

ETS - Embedded TerraSAS PV Simulator (60V, 80V, 150V, 600V, 1000V)

For microgrids, energy storage, and inverter test applications, the TerraSAS™ series photovoltaic (PV) simulators are specifically designed to emulate the dynamic electrical behavior of a terrestrial PV solar array. They offer low output capacitance and high closed loop bandwidth to keep up with the advanced Maximum Power Point Tracking (MPPT) algorithms used in today's grid-tied inverters. The Embedded TerraSAS (ETS) is a high performance solution in a small form factor that combines an agile power supply with an innovative I-V curve generator in a single standalone unit.



- ETS 600 / 1000: For isolated and non-isolated string inverters up to 1000Vdc Voc.
- ETS 60 / 80 / 150: For use with micro-inverters or DC optimizers up to 150Vdc Voc.

TerraSAS Solar Array Simulator

The Elgar Terrestrial Solar Array Simulator was designed to meet the testing needs of OEMs making inverters and DC charge controllers for large scale solar energy farms, which have their outputs connected to the national power grid. TerraSAS capabilities include:



- Programmable I-V curves for solar array inverter and DC charge controller testing
- Tests for inverter Maximum Power Point Tracking
- Simulation of PV cell types (silicon, CIGS, etc.)
- Simulation of dynamic irradiance & temperature
- SAM database with over 100 pre-loaded PV Panels
- Series, parallel and multi-channel capabilities—1000W-1MW

Sources and Supplies for Challenging Test Applications

AC/DC Programmable Sources

California Instruments™

CSW Series

The CSW Series eliminates the need for multiple instruments in applications, such as testing load susceptibility to power bus anomalies, accomplished by combining a precision readback AC/DC power source with a high performance power analyzer and arbitrary waveform generator. This makes a CSW capable of complex testing that traditionally required digital multimeters, power harmonics analyzers, current shunts, etc. Since many components in the CSW are shared between the AC/DC source and the power analyzer, the total cost of this integrated system is less than the typical cost of a multiple instrument system. The CSW Series features:

- Constant Power Mode (up to 33.3kVA output)
- 2-8,000Hz Output Frequencies
- Scope Capture Capability
- Power Programming Software
- Plug & Play Paralleling
- Full remote control via Virtual Panels™
- Optional **LXI** Class C Ethernet Interface

Auto Parallel Mode, External Drive Input, USB, RS232, GPIB and LAN are just some examples of advanced features making the CSW one of the most versatile AC sources available. This makes the CSW Series ideal for testing today's complex avionics, telecommunications and other electronics where a sleek, low profile, light weight power supply better fits the application. These applications include:

- Testing under real-world power conditions using different waveforms on all 3 phases
- Load susceptibility tests with sequence/event programming and multiple harmonics
- MIL-STD-704, DO-160, B787 and ABD100 avionics testing
- Power supply testing for AC-DC, DC-DC converters and UPS's
- Transient tests on 12 and 24 VDC for automotive application



Please visit www.powerandtest.com for complete data sheets and more detailed specifications.

DC Programmable Sources

Sorensen™

SG Series – High Power, High Current and Fast Response

The popular Sorensen SG Series of programmable power supplies has been expanded to include output voltages from 0-10VDC to 0-1000VDC. Their high component density and modular expandability results in compact 4-15kW/3U and 20-30kW/6U rackmount designs. As many as five chassis can be paralleled to operate as a single supply, providing maximum system power up to 150kW. This expansion capability allows the SG Series to meet requirements in a wide range of test applications, from hybrid automobiles to inverters to semiconductors, and many more.

The SG Series is designed for exceptionally fast load transient response, low noise, and ease-of-use – making it suitable for the most demanding applications. Two basic designs are available: the Model SGA with local analog control, and the Model SGI that combines onboard intelligence for automated sequences with looping, custom waveform outputs, and save/recall of settings for repetitive tests. The SGI also features an impressive vacuum fluorescent graphical display in eight languages, context sensitive "soft" keys, and simplified programming with a front panel keyboard. Both versions are available with optional **LXI** Class C Ethernet or IEEE-488.2 (GPIB) interfaces.



DC Programmable Sources

Sorensen™

XG Series for Easy Integration and Control

The XG Series is now available in 850W, 1500W and 1700W versions in a 1U high rack mount, with models from 6 to 600VDC. This programmable power series was designed for easy integration into automated test equipment (ATE) systems – but with its built-in sequencer and remote sense readback, it can be used as a stand-alone system for stimulus-response testing. Typical applications are production testing, R&D labs, and OEM quality assurance.

The new XG1700 Series features constant voltage and constant current modes with automatic cross-over, and an Auto Restart mode for recovery from a PC failure or reboot. Auto Restart returns the power output to its previous state after the loss of any remote digital control, which remains active to avoid disruption to any test process. A Foldback Mode is available to disable the output whenever the supply transitions between constant voltage and constant current operation, which protects sensitive loads.

Many other features are available to facilitate integration into larger test systems, such as standard USB and RS232/485 remote control interfaces, or optional low-cost **LXI** Ethernet and isolated analog interfaces. Moreover, multiple supplies can be configured as a multi-channel system with one acting as the leader and the others as follower units. This allows easy test programming over a simple cable connection with a single GPIB or IP address.



Programmable Power that Saves You Money

BPS Bulk Power Series

California Instruments™

High Power AC Source for Frequency Conversion and Test

The BPS Series consists of multiple high power AC power systems that provide controlled AC output for ATE and product test applications. This high power AC test system covers a wide spectrum of AC power applications at an affordable cost. Using state-of-the-art PWM switching techniques, the BPS Series combines compactness, robustness and functionality in a compact floor-standing chassis, no larger than a typical office copying machine. This higher power density has been accomplished without the need to resort to elaborate cooling schemes or additional installation wiring. Simply roll the unit to its designated location (using included casters), plug it in, and the BPS Series is ready to work for you.



- **High Power AC Source**
Programmable AC power for frequency conversion and product test applications
- **Expandable Power Levels**
Available output power of 30, 45, 75 and 90 kVA per unit and multi-unit configurations for power requirements up to 180 kVA and above
- **Remote Control**
Standard RS232, USB and IEEE-488 (GPIB) and optional LAN interfaces are available for automated test applications

Please visit www.powerandtest.com for complete data sheets and more detailed specifications.

DLM600W Programmable DC Sources

Sorensen™

Performance Rivaling Expensive Linear Supplies

Through the use of Zero Voltage Switching (ZVS) technology, the DLM600W Series achieves exceptionally low, near-linear ripple and noise in a compact 1U (1.75 inches) high, half-rack (8.5 inch) wide chassis. These 600W high density packages are perfect for either rack or bench mounted applications requiring output voltages from 0-5VDC to 0-300VDC and currents from 0-2A to 0-75A. Ripple can be as low as 2.5mV rms, and noise as low as 15mV p-p. Easy leader/follower paralleling with active current sharing is possible with as many as four units, or supplies can be connected in series for higher voltage output. Cooling air intake at the front and sides with exhaust at the rear and sides allows units to be stacked vertically without space between, yielding maximum rackmount density and operating temperatures up to 50°C.



Remote control with 16 bit programming is available through **LXI**-compliant Ethernet/RS-232C interfaces, or 12-bit programming through IEEE-488.2/RS-232C interfaces. Software includes an IVI-com driver, LabWindows™ CVI driver, LabVIEW driver, and Virtual Panels™, depending on options selected.. Analog programming is also available from the front panel with individual 10-turn potentiometer knobs. Other features include overvoltage protection, and voltage/current preview buttons that allow viewing set points on a 3½-digit display at any time with or without the output enabled.

DCS Series Programmable Power Supplies

Sorensen™

Many Choices and Capabilities

The DCS Series with its 5-year warranty is one of AMETEK's most popular DC power supply families.

The high reliability of this platform is demonstrated by a huge installed base that has satisfied diverse applications over many years. More than 30 different models provide outputs up to 600V or 350A in 1kW, 1.2kW and 3kW low-profile rackmount packages, supplying continuous full output power in any volt/amp combination within rated limits.



Easy-to-use 10-turn potentiometers on the front panel are used to adjust voltage and current settings, which are displayed simultaneously. LEDs indicate the status of overvoltage protection (OVP), overtemperature, remote programming, constant-voltage/constant-current mode, and shutdown. The 3kW models also have push button control of the output standby mode, OVP reset, remote/local programming, and preview status of voltage, current and OVP set points. Remote and analog control features are the same as in the DLM Series described above.

Distinctive Products for Diverse Applications

ReFlex Power™ AC/DC Sources & Loads

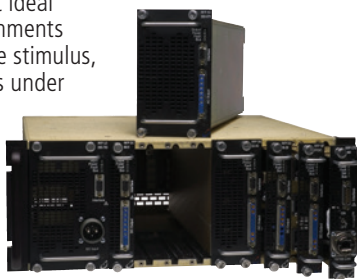
ELGAR™

Reconfigurable Modular Designs for Maximum Flexibility

The RFP™ Series is a modular, high-density, programmable power system that can be configured using AC and DC output modules, along with electronic loads, a controller and chassis (see table). This flexible platform is 100% digital, making it ideal for ATE and production test environments where it can provide programmable stimulus, bias power, and loading for devices under test (DUTs).

The EIA 4U-high mainframe chassis can hold up to 12 single-slot modules, or combinations of single-, dual- and triple-slot wide modules, supporting up to 6kW of output power, and any worldwide AC or DC input. Up to eight mainframes (potentially 95 modules) require only a single controller, which communicates with individual modules via a high-speed proprietary bus protocol. It can communicate with a host controller via an **LXI** Ethernet LAN connection, ensuring interoperability and ease of integration.

By using the powerful ReFlex Power software, modules can be combined via the controller in series or parallel groups or series/parallel arrays to form new assets, or “virtual outputs.” This can be accomplished “on the fly” within a test program – there’s no need to shut down when reconfiguring modules. The result is a reduction in the overall asset count for many of these systems, while increasing the range of voltage and currents available for the DUTs.



| Modular AC / DC Products <i>ReFlex Power</i> | | | | |
|--|----------------|-----------|----------|---|
| Model | Voltage | Current | Power | Overview |
| RFP DC High Power | 33-450V | 2.3-30A | 1000W | DC Output ReFlex Power Module |
| RFP DC Low Power | 16-65V | 5.1-20.6A | 330W | DC Output ReFlex Power Module |
| RFP AC Power | 140-280V | 3.5-7A | 875VA | AC Output ReFlex Power Module |
| RFP DC Load | 500V | 15-30A | 375-750W | DC Load ReFlex Power Module |
| RFP Controller | — | — | — | Ethernet Enabled Controller ReFlex Power Module |
| RFP Chassis | 115-400V Input | — | — | 12 Slot, Universal AC/DC Input, ReFlex Power Module Chassis |

Please visit www.powerandtest.com for complete data sheets and more detailed specifications.

Precision Water-cooled Modular DC Power Supply

Sorensen™

ASD FLX

The ASD FLX gets its name from its modular design with front loading modules for easy access and flexible voltage options. The chassis with removable, lightweight modules allows for easy one person installation. Furthermore, this product has a wide range of voltage input, 324 VAC to 528 VAC, giving it the flexibility to be utilized globally in a single configuration.



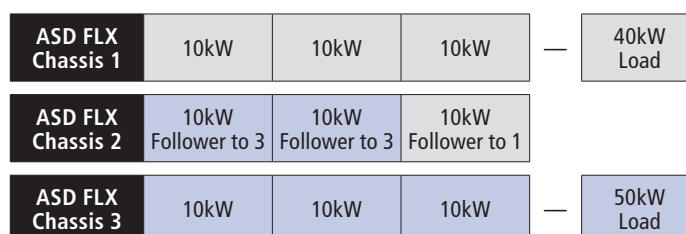
The ASD FLX with its 3U, 30kW water-cooled packaging provides one of the highest power densities available with outstanding output ripple and noise. The water-cooling allows for use in environments that normally exclude air-cooled power supplies.

Advanced digital controls included in the ASD FLX have the ability to allow you to program slew rates, such as current and voltage, as well as program transient response times to emulate specific recovery times. The ASD FLX optional advanced features also allow you to program different “fault levels”, enabling detection of output cabling, connections or load problems before they cause critical system problems. The factory flight data recorder feature has the ability to record parameters such as voltage, current, power, load impedance, faults and input voltages, allowing the factory to easily determine “why” you had an unexpected outcome.

Advanced features include:

- Precise programming of voltage and current slew rate for sensitive loads
- Industrial field bus interface (Modbus-TCP, Modbus-RTU, Ethernet) enable real-time digital control
- Built in power quality monitoring detects and saves input voltage anomalies which can be saved for later diagnostic analysis
- Programmable analog interface scaling facilitates integrating the ASD FLX with existing systems easily
- Built-in energy meter calculates the delivered energy throughout a process or period of time
- Optional real time clock enables accurate timestamping of events

The ASD FLX has the unique ability to allow modules within a given chassis to be followers for different leaders, thus limiting the number of chassis required should an application need more than 30kW. See diagram below.



Sorensen DC Product Listing

| Overview of Rack Mounted Programmable DC Power Sources | | | | |
|--|-------------|---------------|--------------|--|
| Series | Voltage | Current | Power | Overview |
| Asterion DC Series | 40V - 400V | 4.3A - 250A | 1.7 - 10kW | High Performance Programmable, Touchscreen DC Supplies |
| DLM600 | 5V – 300V | 2A – 75A | 375 – 600W | 1/2 Rack DC Power Supplies |
| XG 850 | 6V – 600V | 1.4A – 110A | 670 – 850W | 1/2 Rack DC Power Supplies |
| XG 1500 | 6V – 600V | 2.6A – 187.5A | 1500 – 1560W | 1500W, 1U DC Power Supplies |
| XG 1700 | 6V – 600V | 2.8A – 220A | 1330 – 1710W | 1700W, 1U DC Power Supplies |
| DCS Series | 8V – 600V | 1.7A – 350A | 1 – 3kW | DC Switching Supplies |
| DLM Series | 5V – 600V | 5A – 450A | 3 – 4kW | DC Power Supplies |
| SGX Series | 10V - 1000V | 5A - 6000A | 4 - 150kW | High Power Modular, Touchscreen DC Power Supplies |
| SG Series | 10V – 1000V | 5A – 6000A | 4 – 150kW | High Power Modular DC Power Supplies |
| SFA Series | 40V – 250V | 20A – 2250A | 5 – 150kW | High Slew Rate Current Source |
| ASD FLX Series | 40V – 160V | 167A – 8000A | 10kW – 320kW | Modular Water-Cooled High Power DC Power |
| HPX Series | 10V – 1000V | 45A – 6000A | 36kW – 240kW | High Power Extensible Programmable DC Series |

| Overview of Bench Mounted Programmable DC Power Sources | | | | |
|---|-----------|------------|------------|--|
| Series | Voltage | Current | Power | Overview |
| XPL Series | 18V – 56V | 1A – 3.3A | 30 – 125W | Economical, compact linear power supplies |
| XEL Series | 6V – 250V | 370mA – 6A | 48 – 180W | User-friendly linear supplies |
| XDL Series | 35V – 56V | 0.5A – 5A | 105 – 242W | Digitally controlled power supplies |
| XPF Series | 60V | 10A – 20A | 175 – 840W | Single or dual isolated outputs with PowerFlex |
| XPH Series | 18V – 75V | 2A – 20A | 175 – 420W | Compact, high performance power supplies |

Note: Please contact us for other output voltage / current combinations.

Please visit www.powerandtest.com for complete data sheets and more detailed specifications.

AC Product Listing

| Overview of Programmable AC Power Sources | | | | |
|---|------------|--------------|----------------|---|
| Model | Voltage* | Current | Power | Overview |
| Asterion AC/DC Series | 200 - 400V | 1.25A - 180A | 500 - 36kVA | High Performance AC Power Sources |
| iX and i Series II | 150 - 300V | 0A - 120A | 5 - 15kVA | AC/DC source with high performance power analyzer |
| Ls/Lx Series | 156 - 400V | 0A - 132A | 5 - 18kVA | Three phase and single phase source |
| CSW Series | 156 - 312V | 8A - 288A | 5.5 - 33.3 kVA | High performance AC/DC source |
| MX Series | 150 - 400V | 0A - 375A | 15 - 135kVA | High power AC/DC source in a compact floor standing cabinet |
| BPS Series | 150 - 400V | 0 - 400A | 30 - 180kVA | High power programmable AC source for frequency conversion and product test |
| RS Series | 150 - 400V | 0 - 1500A | 90 - 1MVA+ | High power AC/DC source and analyzer |

* Voltage is Line to Neutral (L-N) for multi-phase sources. For Line to Line (L-L), the conversion is $(V_{L-N} \times \sqrt{3})$.
(For example, an output setting of 277V Line to Neutral = 480V Line to Line ($277 \times \sqrt{3}$))

Note: Please contact us for other output voltage/current combinations.

Please visit www.powerandtest.com for complete data sheets and more detailed specifications.

AMETEK Programmable Power Support

Support

AMETEK Support begins with your first contact and continues throughout the life of our products. We'll help you pick the right product for your application, use it properly, and provide service and parts when needed.

To view all of our support categories, visit our support portal home at www.powerandtest.com/service-and-support/support-home

Technical Support: Need help choosing a product or working with a product you just purchased? Contact our knowledgeable Customer Care team and one of our specialists will help you.

www.powerandtest.com/service-and-support/technical-support

AMECare® Reliability Assurance™ Life Cycle Support:

AMETEK offers support for every phase of your product's life. This support includes items from the day you purchase a new product, install it, and maintain it throughout its life. You decide what type of white glove service fits your application, budget, and timeline requirements while following the path that ensures your product remains in factory "like new" condition for its entire life!

www.powerandtest.com/service-and-support/ra

Downloads: All product manuals, data sheets and support software are available online under the Downloads tab on each specific product page.

Spare Parts

To order spare parts or determine the correct replacement part for your AMREL, California Instruments, Elgar, Sorensen, Power Ten or Xantrex supply, contact the AMETEK Programmable Power Customer Service Department by emailing us at: parts.ppd@ametek.com

Repair

Outside the USA, contact your local representative or nearest Authorized Service Center. Contact information for all Service Centers can be found at: www.powerandtest.com/service-and-support/service-centers

Programmable Power Solutions

For customers that require a custom or quasi-custom configurable system please contact your local representative, distributor or Regional Sales Manager with details. AMETEK's Engineered Solutions group will work with you to design the best solution for your requirements.

Purchase Orders

If emailing in a purchase order, please use the following email address for all (domestic and international) origins.

Purchase Orders for New Products:

Send POs to: orders.ppd@ametek.com

Please visit www.powerandtest.com
for further support, and order help as well
as warranty information

AMETEK Programmable Power has an extensive network of worldwide Reps and Distributors. To find local sales support, please visit us online at www.powerandtest.com/sales-rep/sales.



AMETEK®
PROGRAMMABLE POWER

Global Headquarters
9250 Brown Deer Road
San Diego, CA 92121 USA
Phone // +1 858 450 0085
www.powerandtest.com

Represented By