EasyPower®
Power made easy.

Complete Options Guide

EasyPower®
EasySolv™
OneLine Designer™
OnSite™
XGSLab

Power Made Easy
intelligent | intuitive | instantaneous
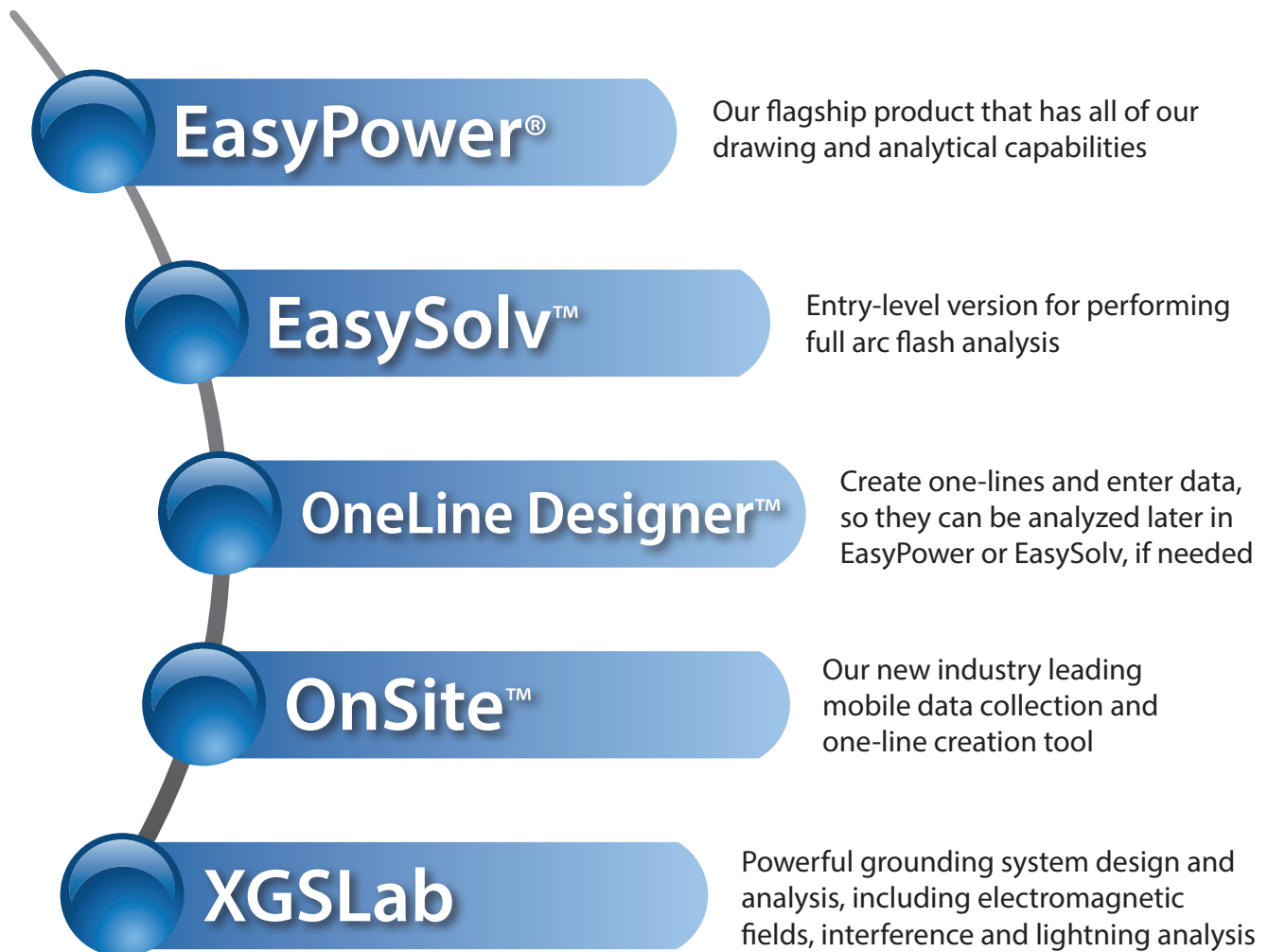power system software

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Power System Software | A Full Lineup

The EasyPower product family delivers a full lineup of powerful Windows®-based tools for intelligently designing and analyzing electrical power systems. With the fastest processing speeds on the market, EasyPower delivers instantaneous, accurate results to help you make more intelligent decisions every day.

Being the first power systems package designed from the ground up in Windows, we think you will agree that our interface and workflow are the most intuitive and easiest to use system on the market. We are confident that you will save many hours when completing the tasks you perform today when compared to the tools you currently use.

Configure EasyPower for the specific tasks you perform most, then add features as your needs grow. It's completely customizable and scalable. Simply choose one of our most popular configurations, or build your own.
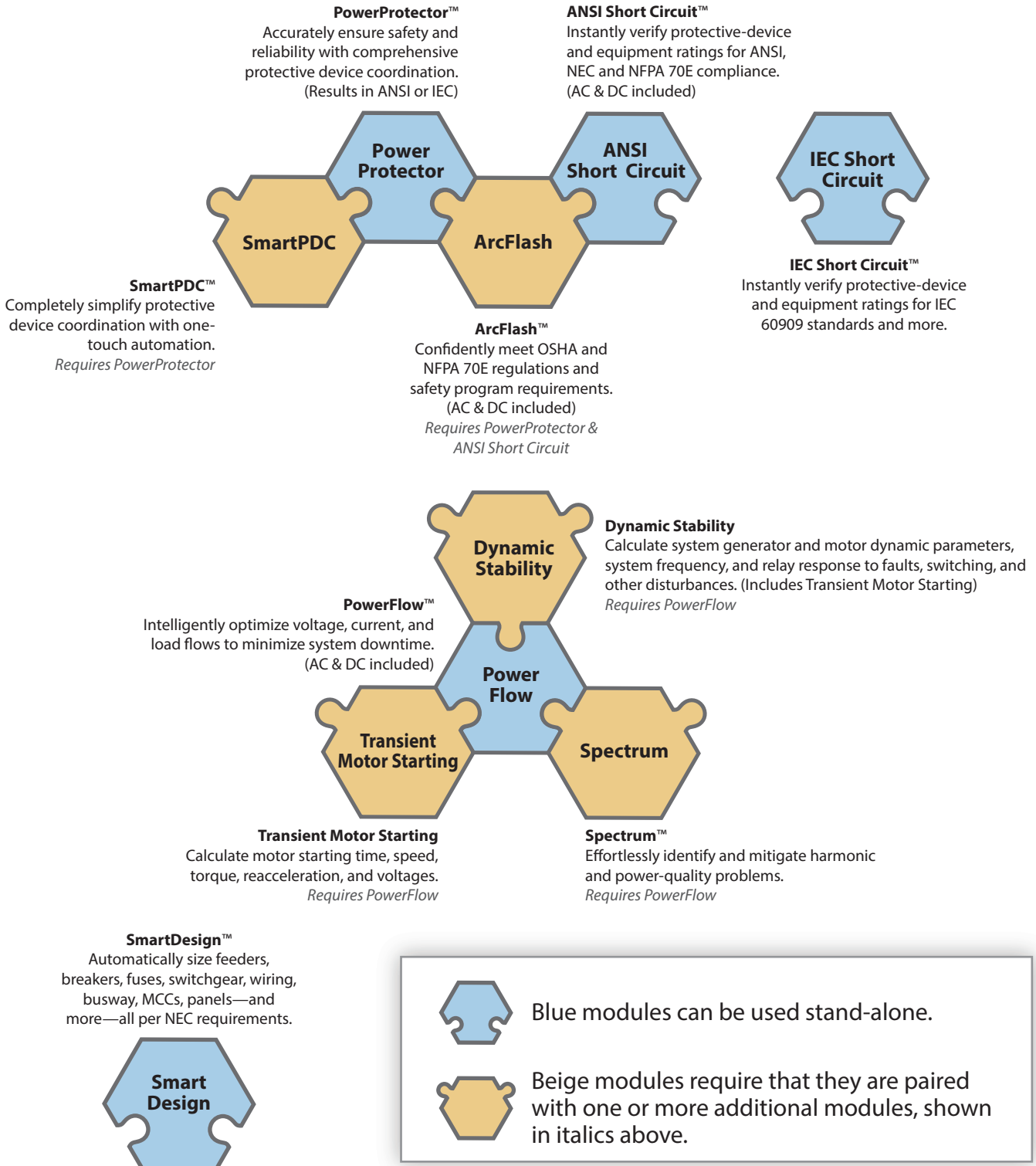
EasyPower®
Our flagship product that has all of our drawing and analytical capabilities

EasySolv™
Entry-level version for performing full arc flash analysis

OneLine Designer™
Create one-lines and enter data, so they can be analyzed later in EasyPower or EasySolv, if needed

OnSite™
Our new industry leading mobile data collection and one-line creation tool

XGSLab
Powerful grounding system design and analysis, including electromagnetic fields, interference and lightning analysis

EasyPower Product Comparison Chart

PRODUCT FEATURES	Oneline Designer	EasySolv	EasyPower
Integrated One-Line - Build or view comprehensive one-line diagrams with exclusive snap-and-drag technology	✓	✓	✓
Comprehensive equipment library for all major manufacturers	✓	✓	✓
ScenarioManager™ - Model and analyze multiple power system scenarios to simulate the real world without excessive risk or expense		✓	✓
SendCAD™ - Seamlessly export data to any spreadsheet and all CAD programs	✓	✓	✓
MCC & Panel Schedules - Log and analyze motor control center and panel data in a familiar spreadsheet format	✓	✓	✓
SmartBreaker™ - Dynamically study switching conditions with single mouse clicks on the one-line		✓	✓
SmartDesign™ – Automatically size feeders, breakers, switchgear, fuses, busway, MCCs, panels—and more—all per NEC requirements		Opt.	Opt.
ArcFlash™ – Confidently meet OSHA and NFPA 70E regulations and safety program requirements		✓	Opt.
Create energized work permits, print arc flash labels, and access the one-line from a read-only format *(included with ArcFlash above)*		✓	Opt.
SmartPDC™ – Completely simplify protective device coordination with one-touch automation			Opt.
ANSI ShortCircuit™ – Instantly verify protective-device and equipment ratings for ANSI, NEC and NFPA 70E compliance			Opt.
SmartDuty™ - Verify equipment duty settings for ANSI-standard compliance, complete with highlighting of problem areas *(included with ANSI ShortCircuit above)*		✓	Opt.
IEC ShortCircuit™ – Instantly verify protective-device and equipment ratings for IEC 60909 standards and more			Opt.
PowerFlow™ – Intelligently optimize voltage, current, and load flows to minimize system downtime			Opt.
PowerProtector™ – Accurately ensure safety and reliability with comprehensive protective device coordination			Opt.
Dynamic Stability – Accurately simulate dynamic interaction between machines, networks, and protective device actions			Opt.
Transient Motor Starting – Precisely calculate starting times, speed, torque, system voltage drops, relay interactions, and more			Opt.
Spectrum™ – Effortlessly identify and mitigate harmonic and power-quality problems			Opt.
WHO WILL GET THE MOST OUT OF WHICH PRODUCTS?			
Electrical engineers and advanced contractors	✓		✓
Electrical contractors and electricians	✓	✓	
Facility and maintenance personnel	✓	✓	
Contractors, project managers, and data collectors	✓		

EasyPower Modules

Configure EasyPower for the specific tasks you perform most, then add features as needed. It's completely customizable and scalable. Simply choose one of our most popular configurations, or build your own. Some modules can be used stand-alone (blue), while others require that they are paired with one or more additional modules (beige).

PowerProtector™
Accurately ensure safety and reliability with comprehensive protective device coordination. (Results in ANSI or IEC)

ANSI Short Circuit™
Instantly verify protective-device and equipment ratings for ANSI, NEC and NFPA 70E compliance. (AC & DC included)

Power Protector

ANSI Short Circuit

IEC Short Circuit

SmartPDC

ArcFlash

SmartPDC™
Completely simplify protective device coordination with one-touch automation.
Requires PowerProtector

IEC Short Circuit™
Instantly verify protective-device and equipment ratings for IEC 60909 standards and more.

ArcFlash™
Confidently meet OSHA and NFPA 70E regulations and safety program requirements. (AC & DC included)
Requires PowerProtector & ANSI Short Circuit

Dynamic Stability

Dynamic Stability
Calculate system generator and motor dynamic parameters, system frequency, and relay response to faults, switching, and other disturbances. (Includes Transient Motor Starting)
Requires PowerFlow

PowerFlow™
Intelligently optimize voltage, current, and load flows to minimize system downtime. (AC & DC included)

Power Flow

Transient Motor Starting

Spectrum

Transient Motor Starting
Calculate motor starting time, speed, torque, reacceleration, and voltages.
Requires PowerFlow

Spectrum™
Effortlessly identify and mitigate harmonic and power-quality problems.
Requires PowerFlow

SmartDesign™
Automatically size feeders, breakers, fuses, switchgear, wiring, busway, MCCs, panels—and more—all per NEC requirements.

Smart Design

Blue modules can be used stand-alone.

Beige modules require that they are paired with one or more additional modules, shown in italics above.

EasyPower Module Options

SmartDesign™ – simplify the design process: right click on an area to design and automatically size feeders, breakers, fuses, switchgear, busway, MCCs, panels—and more—all per NEC requirements.

SmartPDC™ – completely simplify protective device coordination with one-touch automation. In one click, set protective devices without having extensive engineering knowledge or training.

ArcFlash™ – confidently meet OSHA and NFPA 70E regulations and safety program requirements.

ANSI ShortCircuit™ – instantly verify protective-device and equipment ratings for ANSI, NEC and NFPA 70E compliance.

IEC ShortCircuit™ – instantly verify protective-device and equipment ratings for IEC 60909 standards and more.

PowerFlow™ – intelligently optimize voltage, current, and load flows.

PowerProtector™ – accurately ensure safety and reliability with comprehensive protective device coordination.

Spectrum™ – effortlessly identify and mitigate harmonic and power-quality problems.

Dynamic Stability™ – accurately simulate dynamic interaction between machines, networks, and protective device actions.

Transient Motor Starting™ – precisely calculate starting times, speed, torque, system voltage drops, relay interactions, and more.

Change Management and SQL Database (Coming soon)– seemlessly allow teams to manage changes to complex power system models.

EasyPower Core Features—Included With All Modules

Integrated One-Line - Build comprehensive one-line diagrams with exclusive snap-and-drag technology.

ScenarioManager™ - Model and analyze multiple power system scenarios to simulate the real world without excessive risk or expense.

SendCAD™ - Seamlessly export data to any spreadsheet and all CAD programs.

MCC & Panel Schedules - Log and analyze motor control center and panel data in a familiar spreadsheet format.

SmartBreaker™ - Dynamically study switching conditions with single mouse clicks on the one-line.

Custom Text Blocks - Customize text that appears next to the equipment symbols on your one-lines.

Custom One-line Symbols - Customize equipment symbols shown on a one-line to meet your needs.

Network Version

A network license enables you to install EasyPower on your network and access it from any workstation within your network. Based on the number of licenses you have purchased, EasyPower will then allow that number of users to access EasyPower simultaneously. There is no restriction on where EasyPower is installed. EasyPower is the only product that can have a network license.

To convert your license to a network version, the cost is $1,500. All licenses on the same network key must be an identical configuration (bus size and modules). Annual maintenance for a network license is $150 per seat.

A software license (SL) key is a way to have a license without using a USB key attached to the computer. The purchase of an SL key, whether for a new license, the conversion of an existing license, or a key replacement, is $500. Annual maintenance for an SL key is $50 per seat.

Annual License Maintenance Options

	STANDARD	PREMIUM
Technical Support	Response within 24 hours[1]	Response within 24 hours[1] Bump to top of queue
Software Upgrades	1-2 per year, including all device library updates	1-2 per year, including all device library updates
Regional Training	10% discount	20% discount
1:1 Engineering Consulting Support	Not included ($145/hr)	0.5 to 15 hours provided annually at no cost[2]
Maintenance Cost	10% of software list price	15% of software list price

1. Excluding weekends.   2. Per license. Number of hours depends on the license configuration.

Why choose the premium option?

If you anticipate the need for assistance from an experienced power systems engineer on your project and/or you plan to take training.

Here's an example to illustrate the benefits. Let's say your license configuration is: ANSI Short Circuit, PowerProtector, ArcFlash, and SmartPDC, with a 300 bus limitation. You attend one 5-day training class and need an experienced power systems engineer to review your one-line and discuss your arc flash results and the implementation of your safety program, which takes 5 hours of back and forth discussion and reviews. See the table below for a summary of the costs:

EXAMPLE	STANDARD	PREMIUM
Regional Training	$1,980	$1,760
1:1 Engineering Consulting Support	$725	-
Maintenance Cost	$1,000	$1,500
TOTAL COST	**$3,705**	**$3,260**

Clearly the **Premium Option** can save you money and there is no need to get a PO approved for the additional 1:1 support later when you need it.

Details:
- If more than the allotted 1:1 hours are anticipated to be needed, you can purchase them in blocks of 5 hours at a 20% discount at the time that you purchase your software, or when you renew your maintenance.
- The standard level of maintenance is provided for the first year after purchase at no cost. You can upgrade to the premium option by paying the difference of 5%.
- You can upgrade or downgrade your support level when your maintenance contract is renewed.
- Consulting support hours must be used within the year of the maintenance contract in which they are purchased.
- Engineering time needs to be scheduled.
- Only EasyPower licenses are eligible for the premium maintenance plan.
- You can receive a 15% discount on your maintenance if you pay for 3 years in advance.

EasyPower │ Popular Bundles

To accommodate our customers' most frequent requests, we offer these popular software suites to get you started.

No matter which suite of EasyPower power system software you choose, the EasyPower Core Features are included at no additional charge. These include **Integrated One-Line**, **ScenarioManager™**, **SendCAD™**, **MCC & Panel Schedules**, and **SmartBreaker™** (each are described on the previous page).

Suite #1 │ Protective Device Coordination

One-touch automation for detailed short-circuit analysis and PDC to enhance design and power system studies.

Includes ANSI or IECShortCircuit, PowerProtector™, SmartPDC™
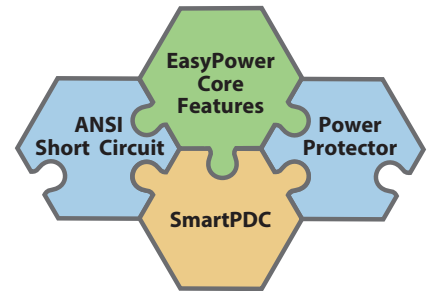
Suite #1 │ Protective Device Coordination is available in 50, 100, 300, 1000, 5000, and Unlimited bus configurations

Suite #2 │ Arc Flash Hazard

Everything you need to create and implement a comprehensive and fully compliant arc flash safety program.

ANSI ShortCircuit, PowerProtector™, ArcFlash, SmartPDC™
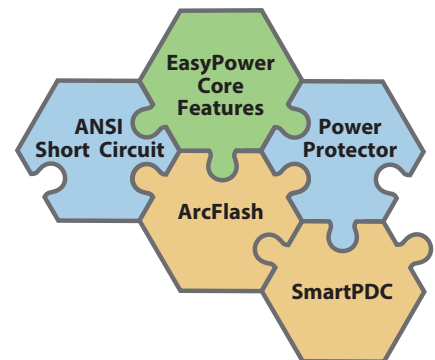
Suite #2 │ Arc Flash Hazard is available in 50, 100, 300, 1000, 5000, and Unlimited bus configurations

Suite #3 │ Automated Design

Perfect for design and consulting engineers; features one-touch automation that completely revolutionizes the entire design process.

ANSI ShortCircuit, SmartDesign™, PowerFlow, ArcFlash, PowerProtector™
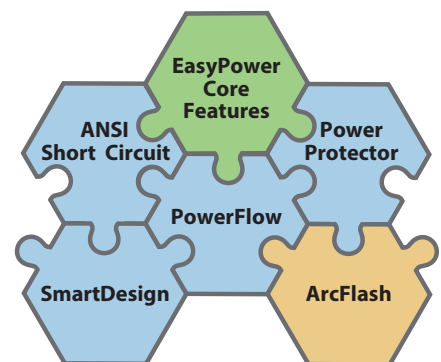
Suite #3 │ Automated Design is available in 50, 100, 300, 1000, 5000, and Unlimited bus configurations

Additional Software Offerings

EasySolv™

Quickly and easily create detailed one-line diagrams, perform arc flash hazard calculations, and maintain system and safety documentation—all in one place.

- Improve and maintain plant safety
- Comply with OSHA, NFPA, NEC, and ANSI regulations
- Prevent dangerous and costly electrical hazards
- Reduce operating expenses and improve productivity

Ideal for electrical contractors and electricians.
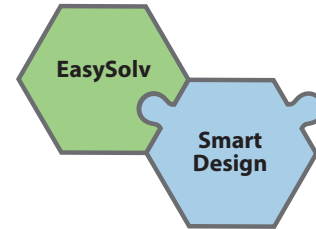
EasySolv is available in 50, 100, and 300 bus configurations

Ideal for EasyPower users who just need to create one-lines.

OneLine Designer™

OneLine Designer offers an affordable solution for companies that need to create one-lines and enter all of the necessary equipment data to perform analysis, but do not want to tie-up a full version of EasyPower while doing so.

- Develop one-lines quickly and easily
- Data entry only (enter all collected data)
- Compatible with EasyPower one-lines format (.DEZ)

OneLine Designer is available in 50, 100, 300, 1000, 5000, and Unlimited bus configurations

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OnSite™

EasyPower OnSite is a new tablet-based tool for collecting data and building your one-line in the field. Improve your productivity by reducing the time it takes to collect power system data and create the corresponding models.

- Save time and money with an all-digital workflow
- Collect data for your electrical power systems
- Build your One-line in the field
- Validate your data for completeness while in the field

Ideal for consulting and plant engineers as well as data collectors.

EasyPower OnSite has no bus limitations

Additional Software Offerings

XGSLab Ground Grid Software

XGSLab (Over and Under Ground System Laboratory) is one of the most powerful software packages for grounding system analysis, electromagnetic fields, interference, and lightning analysis, and the only software on the market that takes into account both EN and IEEE Standards.

XGSLab includes the modules:

- **GSA** (GROUNDING SYSTEM ANALYSIS) for basic applications with underground systems (applicable in many practical cases).
- **GSA_FD** (GROUNDING SYSTEM ANALYSIS in the FREQUENCY DOMAIN) for general applications including larger systems, electromagnetic fields and interference evaluations with underground systems.
- **XGSA_FD** (OVER AND UNDER GROUND SYSTEM ANALYSIS in the FREQUENCY DOMAIN) for electromagnetic fields and interference evaluations for overhead and underground systems and for lightning effects and fault current distribution calculations.
- **XGSA_TD** (OVER AND UNDERGROUND SYSTEM ANALYSIS in the TIME DOMAIN) for general applications with overhead and underground systems, similar to XGSA_FD, and it can also analyze current and potential distribution in the time domain.

All modules are integrated in an "all-in-one" package and based on a hybrid calculation method (or "PEEC" method) which considers transmission line, circuit, and electromagnetic theory combined into a single calculation model.

Applications

The following table summarizes the main applications of the available models.

Application	GSA	GSA_FD	XGSA_FD
Grounding (Small Systems)	Yes	Yes	Yes
Grounding (Large Systems)	No	Yes	Yes
Cathodic Protection Systems	No	Yes	Yes
Magnetic Field	No	Yes	Yes
Electric Field	No	No	Yes
Electromagnetic Interferences	No	Yes	Yes
Fault Current Distribution	No	No	Yes
Lightning Effects for a Single Frequency	No	No	Yes

XGSA_TD can be applied to analyze in the time domain, current and potential distribution on underground and overhead conductor networks energized by means current or voltage transients. It can calculate the consequent distributions of earth surface potentials and electric and magnetic fields.

Training

When it comes to implementing an effective arc flash safety initiative at your facility, quality training is crucial. EasyPower offers convenient options to accommodate various schedules, learning styles, and skill levels.

EasyPower Hands-On Training Seminar | 5 Days to Expert

$2,000 per week, $1,800 with current maintenance, or $1,600 with premium maintenance

Held in various cities throughout the year, our five-day regional seminar helps you get the most out of EasyPower. Visit our website's training page for a current list of training options or email training@easypower.com.

Client Site Training

Client site training at your facility offers a cost-effective way for multiple attendees to learn the powerful features of EasyPower. We can tailor a program to meet your specific needs, or you can simply choose the Regional Hands-On 5-day curriculum. Call or email for a quote.

Online Training & Engineering Support | Web-Based and Personal

$200 per hour

Need help completing your own arc flash study? Want to advance your EasyPower skills? Do you learn better in a one-on-one setting? Consider our Web-based training. Using GoToMeeting, an EasyPower engineer shows you how to perform specific tasks that you request—in real time. And you won't even have to leave your desk. Learn how Online Training & Engineering Support can personalize a Web-based program for you.

Arc Flash Safety Training

EasyPower's professional staff can provide critical safety training at your facility to ensure plant personnel's understanding of how to prevent dangerous arc flash hazards. Convenient onsite training is offered in a classroom setting to as many students as needed. Multiple classes, held over a few days, are available to accommodate large groups. Call or email for a quote.

Engineering Studies

Though we do not compete with our EasyPower customers who are consultants, EasyPower offers a variety of engineering services for those who need them. We deliver expert engineering services for all aspects of electrical power systems, including:

- Arc Flash Hazard Analysis
- Short Circuit Analysis
- Breaker Duty Analysis
- Power Flow Analysis
- Voltage Regulation Analysis
- Power Factor Analysis
- Motor Starting Analysis
- Protective Device Coordination

- Harmonic Measurements, Analysis, and Assessment
- Harmonic Filter Design
- System Dynamic Stability Analysis
- Load Shedding Analysis
- WECC Machine Testing
- PSS Commissioning
- Conceptual Power System Design

Ordering Information

All of our prices are in US dollars and are subject to change without notice. We will process your order upon receipt of actual payment or a Purchase Order within one business day.

Payment Methods

• US/Canada: PO or checks payable to EasyPower LLC. Electronic Funds Transfer (EFT), wire transfer, or credit card, all in US Dollars.

• For orders outside the US and Canada, orders need to be placed through our reseller who represents us in your country. Please see our website for detail at www.easypower.com/company/resellers.php or contact us at sales@easypower.com to find out who to contact.

30-Day Unconditional Guarantee

It's really simple. If you're not satisfied with an EasyPower software product within 30 days of purchase, contact us to send it back for a full refund. Nothing to lose. So much to gain. Contact us today.

Minimum System Requirements

These are the minimum system requirements for the following software:

EasyPower, EasySolv & OneLine Designer

• Operating System: 32- or 64-bit versions of Windows® Server 2003, Server 2008, or Windows 7, 8, or 10
• CPU: Intel®-based computer with dual-core or higher processor
• RAM: 512 MB (2 GB recommended)
• Monitor: 1280 x 1024 or higher resolution monitor and video adapter
• Hard Disk: 1 GB disk space
• Mouse: Microsoft mouse or other compatible pointing device with spin wheel
• **Note:** *Internet access is optional but strongly recommended for all other versions as it enables ease of activating and updating the software.*

EasyPower OnSite

• Operating System: Windows 10
• Processor: Intel® Atom™ x7 or equivalent
• RAM: 2 GB
• Storage: 64 GB
• Resolution: 1920 x 1280
• Camera (rear-facing): 8.0 MP
• USB Port
• **Note:** *You will experience better performance with additional RAM and storage, particularly when working with large projects.*

Optional Equipment

• Stylus
• Mouse
• Keyboard
• MicroSD Card Slot

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