



Simpler, More Reliable Solar.



The Ultimate All-in-One Solar Solution.

As solar energy goes mainstream, there is a growing need for simpler, more reliable solutions. GreenRay is addressing this need head-on; our mission is to make solar more affordable and accessible to all by radically simplifying system design and installation. Our all-in-one SunSine® AC Module integrates all the major system components – solar module, micro-inverter, mounting, and monitoring – into a single package, while maximizing energy production and system reliability. So, whether you’re considering solar for a home or business, there is no simpler, more reliable system than GreenRay.

Simpler.

The SunSine® AC Module dramatically simplifies system design and installation. That’s because each GreenRay AC Module is an independent building block, with all of the components integrated at the factory – virtually eliminating the design task. The modular AC solar panels safely plug together with quick-connect AC cables and drop into a specially designed roof mount. Plus, there are no inverters to mount, no DC wiring, and no cumbersome racks or rails to handle. With 40% fewer components, simpler mounting, and easier wiring, installation time is cut in half!

More Reliable.

By eliminating the weak components used in conventional inverters, and monitoring each module independently, the SunSine® AC Module System maximizes reliability – as proven through accelerated stress tests. GreenRay’s inverters have 3X the life expectancy of today’s inverters and match the warranty of solar modules. Performance is also monitored and easily accessible via any web-enabled device, reducing downtime and maintenance.

More Powerful.

With GreenRay, you can expect to generate 5% to 25% more energy annually than typical solar systems, where a single underperforming panel or faulty inverter can bring down the entire system. Each SunSine® AC Module operates independently. As a result, energy losses from soiling, shading, and module mismatches are minimized, while energy production is optimized.

Maximizing System Reliability.

GreenRay knows the importance of designing for long life. The most frequent point of failure in conventional solar systems is the central inverter that converts DC power produced by the solar panels into AC power for your home or business. While solar panels have a long life with typical warranties of 25 years, inverters usually have to be replaced after only 10 to 15 years. But thanks to industry innovations by GreenRay, you can now enjoy greater reliability along with greater output than ever before.

Closing the Gap.

GreenRay's proprietary micro-inverter design eliminates the weak components found in today's components, which means you can expect unmatched reliability. GreenRay closes the gap between the expected lifetimes of solar panels and inverters; our micro-inverter features a 20-year warranty, plus the backing of independent accelerated stress tests showing lasting power of 50 years or more!

Optimizing Output.

And since it's also about optimizing performance, you can expect to generate 5 to 25% more electricity with GreenRay's AC Module system. That's because every module has its own micro-inverter that converts the power from each panel directly into AC power, and optimizes the energy output of the individual modules. Think of it as eliminating the weakest link – or, in this case, the weakest module.

Benefits for System Owners:

Improve Your Return on Investment

- Produce 5% to 25% more energy than conventional systems.
- Spend less on system design and installation.
- Monitor each module for optimal performance and reduced downtime.

Enjoy Flexible and Expandable Design Options

- Choose a system size that fits your roof, energy needs, or budget.
- Start with a small system and add more modules over time.
- Own an attractive system with a low profile design.

Benefits for Installers:

Reduce Operating Costs

- Cut installation costs by up to 50%.
- Lower maintenance costs with improved system reliability and monitoring.
- Reduce overhead with less training and inventory.

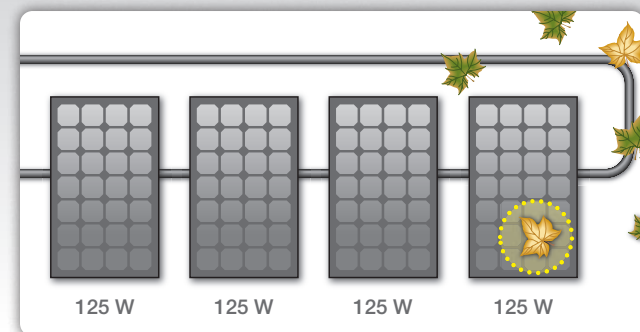
Increase Profits

- Maximize usable roof space, and design larger systems.
- Convert more leads into sales using flexible design options.
- Build small systems that can be expanded in the future.

Improve Safety

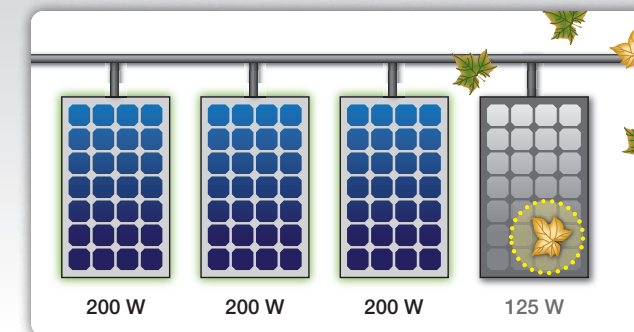
- Improve worker safety on sloped roofs with GreenRay's mounting system.
- Avoid DC wiring and shock hazards.

Reduced Output of Conventional Solar vs. GreenRay



CONVENTIONAL DC SYSTEM

- The modules are connected in series.
- The weakest module determines performance.
- The output of the entire system is reduced if one module fails or is affected by shade or debris.



SUNSINE® 200 AC MODULE SYSTEM

- The modules are connected in parallel.
- Each module produces electricity independently.
- An underperforming module does not affect the others.

Simpler Solar.

Simply put, Green Ray's modular, plug-and-play system makes solar more affordable by radically simplifying design and installation. Just plug our AC modules together with quick-connect cables and drop into a specially designed roof mount. With fewer components and faster mounting and wiring, installation has never been easier.

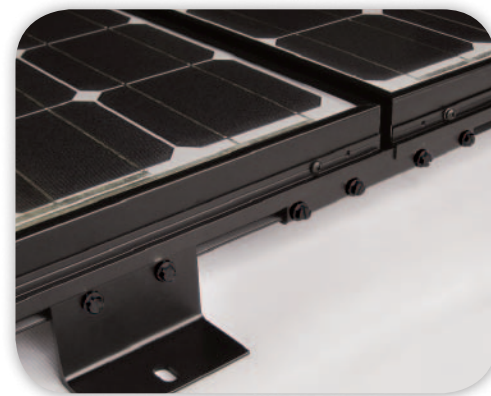
GreenRay SunSine® 200 AC Module

Each high performance, high efficiency module comes with an integrated micro-inverter. This proprietary technology provides higher reliability, longer life, and more energy than conventional solar systems.



GreenRay Mounting Solution

Our unique mounting solution dramatically simplifies installation, while enhancing system reliability and safety with auto-grounding. The frame-integrated mounting system installs in half the time of conventional rack-mounted systems. With 40% fewer parts, and no cumbersome rails or special tools required, it is the streamlined approach you've been waiting for.



GreenRay SunTrak™ Monitoring System

Unlike monitoring for conventional solar arrays that only shows the production of the entire system, the SunTrak™ Monitoring System analyzes the performance of individual modules for greater reliability. Flexible architecture displays the information from any web-enabled device. It's a simpler, more reliable way to monitor your system and maintain optimal performance.



Easy, Flexible Designs.

GreenRay simplifies design and offers ultimate flexibility. Here's an example for a 1 kW system (with 5 – 200W modules):

- Order (1) Monitoring Kit and (1) Transition Box or Connector Kit for any size system
- Order (5) AC Module Kits and (5) Mounting Kits
- If you want to increase the size of the system in the future, you only need to order additional AC Module Kits and Mounting Kits to connect to the existing system.

Here are a few sample configurations, but you can order any number of modules to provide the flexible designs you've been waiting for!

System Size (kW)	AC Module Kit	Monitoring Kit	Mounting Kit	Transition Box or Connector Kit
1	5	1	5	1
2.5	12	1	12	1
5	25	1	25	1
10	50	1	50	1

Part #	Item	Description
AC-AA-01	SunSine® 200 AC Module Kit	200W AC module, micro-inverter, and mounting frame, pre-assembled
DA-AA-01	SunTrak™ Monitoring Kit	GreenRay gateway and power adapter; one kit required per system
MT-AG-01	SunSine® 200 Mounting Kit	Mounting feet, link plates, screws, and washers for rafter mount; one kit per module
WC-AL-01	SunSine® 200 Connector Kit	AC cables, connectors, labels; varies with layout; one kit per system
WC-AM-01	SunSine® 200 Transition Box Kit	Alternative to connector kit; includes cables, connector, transition box assembly



About Us.

GreenRay Inc, an experienced team of solar veterans, has created a true solar appliance. Our founding team developed the technology used in the original Ascension Technology AC modules, which were sold and installed in 1997 and are still going strong today. Our long history in the industry, both designing and installing solar systems and products, has given us a firsthand appreciation of the challenges of solar. Those challenges have acted as the impetus for our unique solar technology that is changing the industry today.

Energize Your Home or Business With GreenRay Solar.

While today's systems use discrete components and require specialized expertise to design and install, our plug-and-play AC system is fully integrated. The SunSine® AC modules plug together and drop into a specially-designed roof mount. By reducing design and installation time, we make solar more accessible and simpler to install. Our patent-pending technology sets the new standard for rooftop solar electric systems. It's how GreenRay makes solar power simpler, more reliable, and more powerful than ever been before.

For more information about GreenRay or our SunSine® AC Modules, call [1-978-631-0509](tel:1-978-631-0509), or visit www.greenraysolar.com today.



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