



BenQ
Solar

The Handy Solar Solution



AC Unison

The High Performance Integrated AC Module Solution

Time to go solar

It is the right and smart thing to do.

Solar Power is clean, renewable, and now easy to harness through advanced solar technologies and products that are available today. Living affordably and protecting yourself from rising energy costs by investing in a solar energy system is one of the wisest decisions a homeowner can make. BenQ Solar makes it easy to save money while simultaneously benefiting the environment and increasing the value of your home. Join the growing number of homeowners making the switch today!

Going solar provides significant financial and environmental benefits:

- Lower your electricity bill
- Earn a stable return on your investment
- Increase the value of your home
- Protect against rising energy costs
- Conserve our natural resources
- Reduce pollution caused by fossil fuels & nuclear power



>> BenQ Solar AC Unison

A **Simple** way to maximize solar power for your home

AC Unison is a revolutionary solar solution for your home that combines a high efficiency BenQ Solar photovoltaic module with an integrated micro-inverter at the back side of the module. The micro-inverter on each module replaces the need for a large single, centralized inverter currently used in traditional solar systems. AC Unison dramatically simplifies system design and converts AC power more efficiently - right at the panel. This built-in technology greatly increases AC Unison's energy harvest, reliability, flexibility, and safety. In addition, the BenQ Solar Monitoring System is available to track AC Unison's power performance via the internet.

*1: The appearance of the micro-inverter may vary by product version.
*2: Calculated based on snow density of 24lb/ft³

Excellent performance, durability, and aesthetics

- Module technology provides superior performance under weak light conditions like dawn, dusk, and cloudy days.
- Strong frame design is approved for high wind and snow loads up to 5400 Pa, which corresponds to 4.6 ft.*² of fresh powder snow.
- Sleek all-black module design integrates beautifully with your roof.



How

AC Unison works at your home

1

Generation AC Module

The BenQ Solar AC Unison modules convert electricity from sunlight directly into AC power, compatible with all your standard home appliances.

2

Distribution Electric Panel Box

AC Power is transmitted from the solar array to the electric panel box, which distributes grid compliant electricity to home appliances.



10.8 kW
AC Unison Rooftop
Hawaii, USA

3

Metering Utility Meter

Your electric utility's meter measures your home's energy consumption. A solar electric system reduces demand from your utility and will "spin backwards" if more power is being produced than your home is consuming.

4

Monitoring Data Logger and Web Portal

The Data Logger tracks AC Unison system production and performance. The BenQ Solar Web Portal allows you to track this information via an internet connected device.

5

Buying/Selling Utility Grid

Your AC Unison system is connected to the utility grid so you still buy electricity from the utility company when you need more power than the solar power system is producing. Some electric utilities will provide credit for the excess generation from your solar system.



BenQ Solar AC Unison Benefits

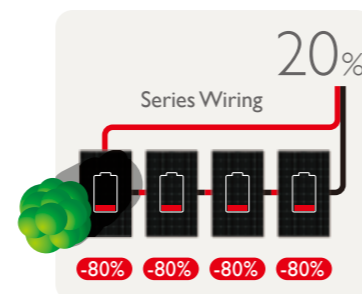
AC Unison combines proven solar technologies with leading edge concepts to provide a solar electric system that is ideal for most residential and small business sites. AC Unison offers many advantages over traditional solar systems.

+20% High and Stable Energy Output

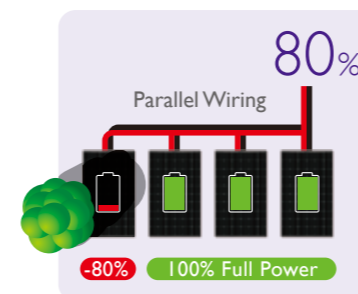
AC Unison's Module-level MPPT (Maximum Power Point Tracking) enables maximum power from each module installed by minimizing the power losses due to shading and soiling and can improve system performance by 5%-20% under partially shaded conditions.

- Parallel wiring design ensures that a single module failure will not impact the performance of the whole system. Any shading or soiling only affects the output of the shaded module, in contrast to a traditional system where power will be lost from a complete circuit of modules when only one module is shaded.
- Modules can be installed in different orientations, allowing solar production from more roof area and increased rooftop efficiency.

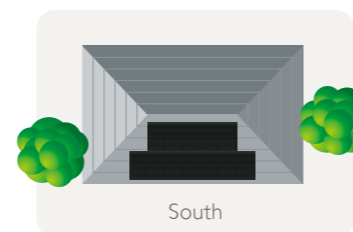
Traditional PV System



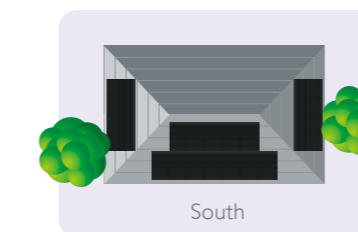
AC Unison



Traditional PV System



AC Unison



Modular Flexibility

AC Unison offers more flexibility in system sizes and installation location. You can start with a small system that is affordable to you then individually add more modules to the system in the future, without the constraints of traditional system designs that require full circuits to be added during expansion.



Quick Installation

With a smart plug and play design, AC Unison reduces installation time by up to 50% compared to traditional systems. Simple design enables installers to finish their jobs quicker and easier with less inconvenience to your home or business.



Increased Safety

AC Unison's AC only output means a solar system with no high voltage DC power that is safer to own and maintain on your roof.



Smart Monitoring System

A web-based monitoring system is available for greater visibility of system performance. You can easily monitor your energy production anytime via your PC or smart phone and your installer can also remotely track your system if maintenance is required.



Single Warranty

AC Unison comes with a single warranty from AU Optronics (NYSE: AUO) for the complete AC module. Should you have a problem with your solar system in the future, you can avoid the complications and costs of dealing with multiple vendors.

>> BenQ Solar Monitoring System

A Powerful tool to protect your solar investment

BenQ Solar provides an optional monitoring system, allowing you to monitor your AC Unison system performance online. The BenQ Solar Monitoring System, composed of Data Logger, Web Portal, and Mobile APP, enables you to track potential system issues quickly and ensures the highest yield on your solar investment.



View your system performance At-a-Glance

The BenQ Solar Monitoring System continuously tracks the performance of your AC Unison system. The performance information can easily be viewed in dynamic graphs at a glance, summarized by day, week, month, year, and lifetime.

Monitor your solar system On-the-Go

You can check your AC Unison system status anytime, anywhere through the BenQ Solar Mobile APP on your smart phone. Your installer can also use the BenQ Solar Monitoring System to remotely diagnose your AC Unison system and conduct preventive maintenance to optimize performance.



- Energy Info. at a glance



Features

- Display present and historical system performance
- Online access via any web-enabled device
- Comprehensive monitoring and multiple viewing modes
- Estimate financial and environmental benefits
- Export electricity production data
- Share site photos online
- Local weather information

>> About BenQ Solar

A Partner you can truly rely on

BenQ Solar, a division of AU Optronics, is committed to bringing solar into your everyday life in a greener, more efficient, more reliable and easily accessible way. AU Optronics Corporation, a worldwide leading manufacturer of TFT-LCD panels used in everyday consumer electronics devices like cell phones, computer displays, and television sets, is dedicated to greener products, efficient manufacturing, and a better way of living. BenQ Solar leverages the manufacturing strength of AU Optronics and its complete value chain, including M.Setek's high quality polysilicon and ingot, and AUO SunPower's high efficiency cell, to produce top quality and innovative solar products to worldwide customers.



MEMBER OF

**Dow Jones
Sustainability Indices**

In Collaboration with RobecoSAM

AU Optronics Corporation's profile

History

Established
12 Aug.
1996

TAIEX: 2409
08 Sep.
2000

NYSE:AUO
23 May
2002

Workforce As of Jan. 2014

45,000



Revenue

FY12
USD 13B

FY13
USD 14B

Contact BenQ Solar

Taiwan

No. 1, JhongKe Rd.
Central Taiwan Science Park
Taichung 40763, Taiwan
www.BenQSolar.com/inquiry

USA

1525 McCarthy Blvd. Suite 218
Milpitas, CA 95035, USA
www.BenQSolar.com/inquiry

Dealer Stamp



AU Optronics Corporation
Corporate Headquarters

No. 1, Li-Hsin Rd. 2, Hsinchu Science Park, Hsinchu 30078, Taiwan
Tel: +886-3-500-8899 www.BenQSolar.com



BenQ Solar is a division of AU Optronics. The brochure is printed with Soy Ink.
© Copyright Feb. 2014 AU Optronics Corp. All rights reserved. Information may change without notice.



BenQ
Solar