



## Benefits to System Installers

The Tigo Energy Maximizer System allows the installer to offer an increased number of viable rooftops for PV installation, and utilize alternative orientations or slightly shaded areas. This means greater energy production per site, and lowest cost per kilowatt-hour generated. System installers will enjoy simplified on-site installation associated with crystalline modules, and reduced BOS (Balance of System) components and cost for thin film arrays. The system includes software which monitors and manages the PV system, automatically alerting the installer to any maintenance or system problems that may occur. Reports and long-term production statistics can be generated for analysis and warranty service contracts.

## Maximize your PV Installations with Tigo Energy

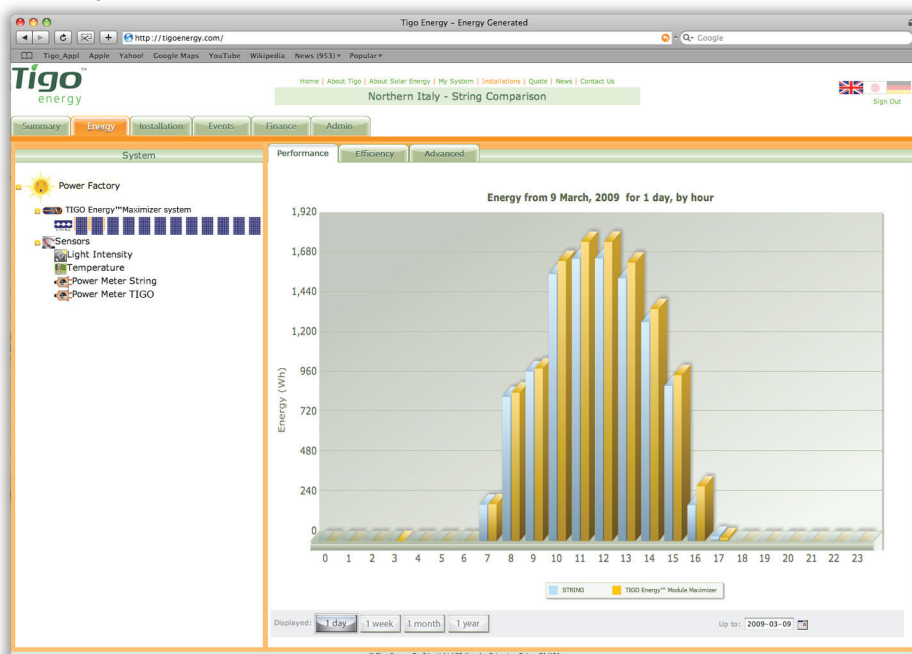
Traditional PV installations can be limited in their power output due to module mismatch and overall system inefficiencies. A weak module will have a large negative effect on the entire system. Uneven module aging, slightly different module orientation and module temperature differences caused by uneven air circulation can all lead to lower than expected output over time. A module with bird droppings is not only producing less

energy but also dragging down the output of the other modules. And if a module is slightly more soiled or shaded it may turn off altogether. The Tigo Energy Maximizer System (patented) treats each module as a separate power source, ensuring each delivers the maximum energy possible, unaffected by weaker modules in the system. This can result in up to 20% more energy output from your solar project, reducing your electric bill and payback time.

## Complete System Solution – Maximize System architecture

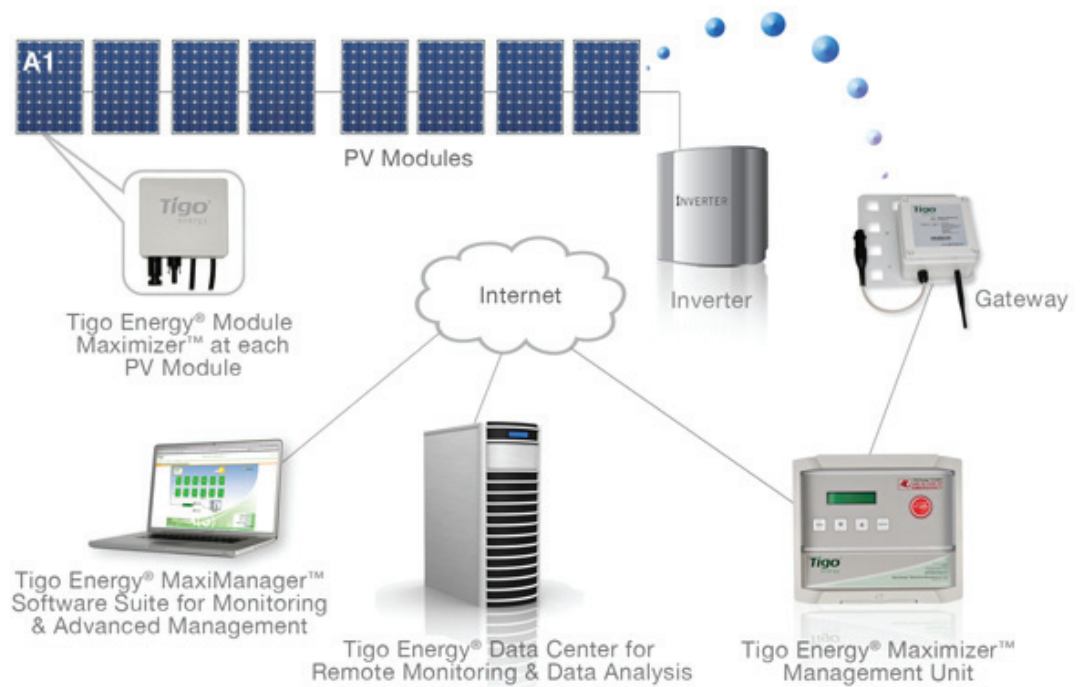
The Tigo Energy Maximizer System (patented) is designed to optimize system architecture in order to take advantage of the widest range of modules and inverters available today. Combinations of modules and inverters previously unavailable are now possible; no need to be limited to specific string sizes, allowing for more flexibility in rooftop placement.

As the power output of each module is managed independently, modules can now be placed in rooftop areas where they are subject to periodic shade or differing orientation without impacting the array performance. Project developers can leverage fixed installation costs to deploy the highest output capacity possible. Projects that were previously non-viable with traditional design constraints can now be placed into profitable operation.



## Improved IRR through increased power output

Tigo Energy Maximizer systems will typically return up to 20% incremental power output throughout the life of the system. Financial estimates indicate that for example an increase of 6% harvest can improve the project IRR by 20 basis points, often providing 30 to 40% increase in returns. Additional cost savings are available by reducing BOS costs associated with thin-film installations. The software control algorithms ensure that the system runs at maximum uptime while alerting the operator to any specific events that may lead to maintenance actions.



## Improved customer service and operational control through MaxiManager software applications

Tigo Energy MaxiManager software gives the system manager unprecedented access to the module level for performance monitoring, analytics, and the ability to view current and historical energy production. Tigo Energy MaxiManager software is configurable to send e-mail alerts to the installer/operator to keep the system operating at peak performance and greater customer satisfaction.

The MaxiManager software can also create customized reports to enable the system owner to see trends in energy usage during different times of the year and varying weather conditions. The MaxiManager applications can be accessed through a secure site via any web-enabled computer, so even when the system manager is not in the office they can instantly view system status.

## Improved Disconnect Safety through PV-Safe (patented)

During everyday operation commercial rooftop solar is a safe and reliable technology. But as with any electricity system, in the event of roof-top maintenance or a fire emergency it is important that the system can be deactivated. Today's solar PV systems can be disconnected from the grid, but if the sun is shining there will still be high-voltage (usually in excess of 400V) through the modules. This can pose an unexpected danger to those working or fire fighting on a building with solar. The Tigo Energy Maximizer system includes a unique technology (patented) which enables each module to be electrically removed from the high voltage DC cabling. This function can be activated with an onsite safety button or via a remote management console.

## Customizable views for lobby display or sharing over the web

Your customers can show their commitment to clean energy and greenhouse gas emission reduction by sharing the installation and summary view in a user-friendly format. The pictures and data help people who are new to solar understand the value of solar energy and how it contributes to reducing their carbon footprint.

## Start Saving today with Tigo Energy Maximizer System

Ask your Distributor about the Tigo Energy system as a part of your new or retrofit PV project. The technology is available for little or no premium over traditional systems. Your customers can begin enjoying MORE financial benefits from their solar the day it is grid-tied. Get Tigo Energy and get much MORE!

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