

## Solar PV - AC Module Plug & Play Package

### Product Guide

Solar Panels Plus is pleased to offer the brand new AC module P&P package. This system makes PV systems simpler, less expensive, and easier to install than ever before. Prepackaged and featuring the safest technology on the market, the AC module system is perfect for residential and commercial applications alike.

#### ***Better Performance***

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PV modules naturally vary in voltage, current, and wattage. In traditional PV systems, modules are wired together in series and then connected to a central inverter. This inverter optimizes the performance of the entire group of PV modules, but the modules individually will not be at their optimal performance.

This means that in a traditional system, there are power losses between the modules because of this variance, as well as when an individual module becomes shaded, soiled, or suffers energy loss due to age. This causes the entire series of modules to suffer the same energy losses, since the power flows from each module through the next on it's way to the inverter.

With the Solar Panels Plus AC module, the inverter is built into the module itself. This means that each module individually operates at it's optimal power output, maximizing it's power output and eliminating the losses previously mentioned.

#### ***Completely Safe***

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A new technology employed in this system is one that makes handling the modules safer than ever before. Using smart-grid programming, the integrated micro inverters produce no power until they are connected to the grid with a stable electrical connection for 5 minutes.

This means that while handling the modules, making electrical connections from module to module, and during the bulk of the installation process, you are completely safe from electrical shock.





## ***Streamlined & Simple***

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The new AC module P&P package makes installation simpler than ever before. These systems come prepackaged with racking, wiring, and the AC module itself, allowing for a fast, clean, simple installation.

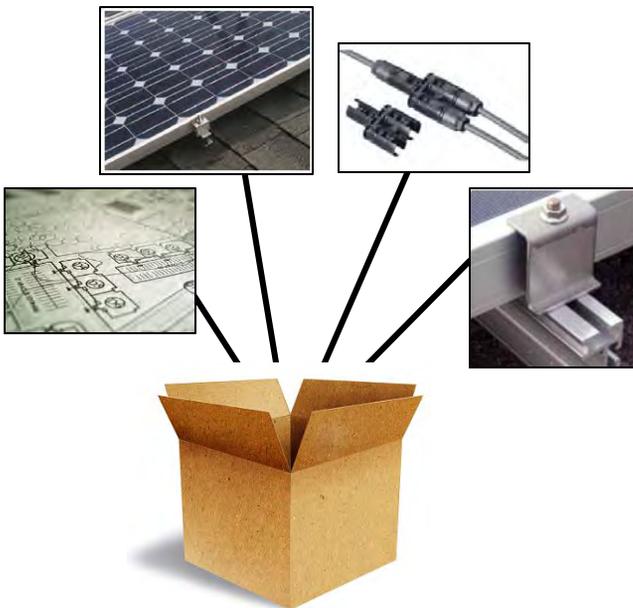
There are now only two basic installation steps – anchor the modules to the roof, and run a dedicated circuit to the roof. This makes design easy, installation simple, and keeps the system costs down, making it even more affordable for your home or business.

## ***Reliable, Durable, and Longer Lasting***

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Lifespan, durability, and reliability of a PV system is one of most important attributes to consider. Traditional central inverters have a life expectancy of 12 to 15 years. Because micro-inverters are less accessible than a central inverter, and are subject to more extreme thermal conditions, they are held to a much higher standard of reliability and durability. Micro-inverters that are built into PV modules will often last just as long as the module itself – 25 to 30 years, or longer.

In a typical PV system, if a module – or the central inverter – encounters a problem or is damaged, the entire system suffers power losses, or is shut down completely. With the AC module, this is no longer an issue. If one module is damaged or encounters an issue, the remainder of the system continues to operate at peak performance. This greatly improves the reliability of the PV system.



## ***Pre-engineered & Pre-packaged***

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Solar Panels Plus has carefully hand selected key components, tested, engineered, and packaged a complete AC module kit for fast, easy installation.

Modules, integrated inverters, connectors, racking, and installation instructions are all included in the plug & play package. The installer places an order, and within a short time a few crates show up with all the major components you need for a complete installation, from start to finish.



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