


Conergy ON Module

Reliable yield.
Lifetime durability.



* Ontario PV Installer Survey by ClearSky Advisors



Exceptional Performance. This is where it all begins.

What makes a PV module exceptional?

Efficiency is important, but is not the defining trait of an exceptional module. A truly exceptional module will generate high yields, generate them reliably, and generate them for years. Reliable, long-term yield is where the return on a solar energy system begins.

Conergy is a global leader in PV systems. Across the globe, one of every ten modules is manufactured, sold or installed by us. We hold ourselves and our products to the highest standards. As manufacturers of every key component for PV systems, we know the importance of module performance. This is where it begins – with the generation of electricity. What remains unused here cannot be compensated for by any other component in the system, or by even the most intelligent system planning.

Conergy brings its knowledge and experience to the design and manufacturing of the Conergy ON series.

It begins with industry-best components, manufacturing practices and quality controls.

High-quality components

The cells – the heart of every module – are procured only from proven Tier 1 suppliers, and consist solely of the highest quality “Grade A” cells available from each supplier. Each approved cell supplier has been meticulously qualified by Conergy’s quality control team, and the cells themselves are screened on an ongoing basis for key parameters such as the absence of hot spots and minimal leakage current under reverse bias – characteristics that speak directly to cell performance and durability. The unique, rear-ventilated, sealed and potted junction box was designed specifically to address the most typical junction box failure modes, and our cables have 32 times the life expectancy of normal PV cables. These are just a few examples of the high quality components that go into the Conergy ON.

Industry leading manufacturing and quality control

Conergy has gained in-depth insight into the best manufacturing standards at our fully-automated and vertically-integrated module manufacturing plant in Frankfurt (Oder), Germany. This plant includes a complete research and testing facility, which provides cutting-edge knowledge and expertise. Conergy contractually implements the best practices learned from this facility in all of our contract manufacturing facilities around the world. Further, our Ontario contract manufacturer brings its own 30 years of manufacturing experience to the production of the Conergy ON series modules. Finally, we subject finished Conergy ON modules to a rigorous, 15-page visual inspection procedure to ensure nothing has been overlooked. Our process includes inspection for safety, performance and aesthetic-related defects. This is the last step in confirming that Conergy only delivers the highest quality, truly exceptional modules to our customers.



To ensure quality, the Conergy ON is one of a select few modules manufactured at an ISO:9001 facility in Ontario.



High Performance Cells: *The PV cell is the module engine and Conergy's qualification criteria ensures quality, long-lasting 3-busbar cells go into every module.* Efficient 3-busbar cells increase the yield of the entire module compared to the typical two busbar cell designs. Conergy was one of the first manufacturers to pioneer the use of three busbar cells in mass production. Every Conergy ON module utilizes this innovative cell configuration.



High Load Capacity: *Ontario PV installations face challenging environmental conditions.* Conergy's load design ensures durability for all local site conditions. The Conergy ON is rated for loads up to 5400 Pa/112.8 psf – the equivalent of a 205 mph wind load, or up to 16 feet of snow, and strong enough for the most extreme site conditions.



Innovative Junction Box: *Conergy's junction box has improved cooling and environmental protection than our competitors.* This means better performance and safer installations. Featuring soldered connections inside a fully sealed and potted junction box that is raised off of the module backsheet for better cooling and thermal isolation, the distinctive Conergy ON junction box maximizes safety, reliability and electrical performance. Our junction box also uses UL4703-compliant cables that provide up to 32 times the life expectancy of industry-standard PV cables.



FIT Compliance: The Conergy ON module achieves 15% domestic content for MicroFIT projects and 13% domestic content for FIT projects under the Ontario Green Energy Act.



Structured Anti-Reflective Glass: *Low quality coated glass that deteriorates over time can degrade system performance.* The Conergy ON utilizes microstructured glass to increase light transmittance by up to 7% compared to standard flat plate glass. And because no anti-reflective glass coatings are used, there's no chance for any discoloration or possible yield reduction due to coating degradation – a common issue with modules employing anti-reflective coatings or laminates.

OUR WORLD IS FULL OF ENERGY.



CONERGY

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