LG Solar’s New V5 Modules Are More Durable When Temperatures Fluctuate

All metal expands when heated, including the metal contained in solar module wiring. Many solar modules experience a permanent power drop due to cells that crack when outside temperatures fluctuate between hot and cold.

Outdoor temperatures can change significantly from day to night on any day in many regions. Between summer and winter, temperatures can also be wildly different.

LG Solar addressed this issue in our new V5 modules by improving the metal in our wiring. Our new wires are designed to withstand greater stress due to thermal expansion.

To be certain of our modules’ durability, we put every module through extreme heat and cold conditions during our thermal cycling test. We vary the temperature at least 200 times during the test; in fact, even though the standard for this type of testing is 200 times, we test our modules up to 400 times.

During testing, our modules are subject to temperatures as low as -40° C, then heated to temperatures as high as 90° C – over and over again. Only if the module still produces its maximum power output does it pass our thermal cycling test.

The result? LG Solar’s new V5 modules can handle extreme temperature fluctuations – they’re more durable in real-world conditions than ever before.

When you go solar, ask for the brand you can trust: LG Solar

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