

The accumulated generation of these two module types was 72545.05 kWh and 69546.36 kWh respectively, and the average energy yield per watt of N-type and P-type modules was 171.81kWh/kW and 163.60 kWh/kW, the N-type surpassing the PERC by about 5.02%. The power generation of a module depends on its power degradation, temperature coefficient, low irradiance performance, operating temperature and bifacial generation performance. While both types of module were based on half-cut bifacial solar cells, the energy yield difference was mainly due to cell technology performance.

In terms of power degradation, due to the natural advantage of an n-type wafer for LID-free and enhanced LeTID performance compared to a conventional PERC cell, Jinkosolar' s N-type TOPCon panel provides a 30-year linear power output warranty, with less than 1% degradation in the first year and less than 0.4% annual degradation in subsequent years. Calculations show power generation gain in first-year can reach up to 1.2% based on the lower degradation of N-type TOPCon.

As for high temperature energy yield performance, Tc 0 -1 2N-type T