Project Purpose:

To examine the weak light response of different module, different technology, a target purposed field test comparing Jinkosolar **TOPCon** and **N-type BC** was carried out from June 02 to June 30 by **TÜV Nord in Kagoshima, Japan**, where is well known for its **gloomy days**.

Project Introduction:

This field test was conducted at the Kagoshima Field Testing

modules were installed: N-type TOPCon modules and N-type BC modules. The test setup consisted of two modules from each manufacturer installed on fixed mounts at a height of 1.2 meters from the ground and a tilt angle of 32 ° . The initial power of the modules was measured using the SAT method, and spectral correction was not considered in the test results.

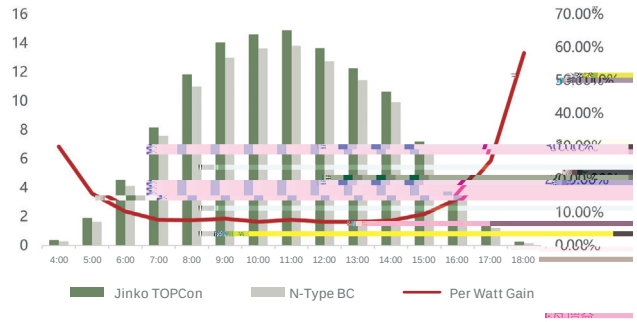
CR1000X acquisition system, with a sampling interval of one minute. Additionally, module plane irradiance, backsheet temperature, ambient temperature, humidity, atmospheric pressure, and other data were recorded at the same sampling interval.

Technology	Power/W	Module type	Size（mm）
Jinko TOPCon	590	Dual Glass	2278×1134×30
N-type BC	605	Single Glass	2278×1134×30

Sample component parameters

Test Results:

^{2}) of 10.79%.



Conclusion:

Thanks to its optimized leakage current path distribution, good parallel resistance, passivation layer reducing carrier recombination losses, plus fill factor advantage, **TOPCon panel produced by Jinkosolar exhibit exceptional efficiency in electricity production under low-light conditions, such as on cloudy days or in high-latitude areas with low light.**