

2.56% Yield Gain of TOPCon Over P-Type BC in 15-Month Rooftop System Comparison

Test Background :

The rain-filled April (20 rainy days in April 2024) resulted in decreased irradiance, resulting in 0.91-1.19% yield gain of TOPCon against P-type BC.

Test Introduction :

factory rooftop system in Jiangxi, China (N 27° 48' -29° 42', E 116° 13' - 118° 29'). All the modules were installed on a fixed structure with a tilt of



Conclusions :

Results :

During the past 15 months, (August 14, 2023 - November 30, 2024), the and the highest temperature of 39.7 ° C in July. The lowest irradiance of

- 1.The total energy yield of TOPCon solely contributed by front side was at most **2.56%** higher than that of P-type BC modules due to TOP-Con' s higher generation capability (kWh/kW). Putting aside its advantage of bifaciality, TOPCon still has more potential than BC for rooftop applications.
- 2.Both types of modules exhibited a strong linear correlation between irradiance, temperature and energy yield. The stronger the irradiance and temperature, the higher the yield gain of TOPCon.
- 3.TOPCon showed better low light performance in the morning and dusk.