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: the energy yield gain of n-type TOPCon (Group 1) versus p-type PERC (Group 2) with fixed axis

: the average degradation of Group 1 (TOPCon with fixed axis) and Group 2 (PERC with fixed axis) is

installed on a fixed axis with a tilt angle of 40° (as shown in Figure 1) Moreover, the pitch and clearance of each array were 10 m.



Figure 1. Fixed axis

ing groups (measured from September 2022 - March 2023) are shown in Table 2 and Figure 3.

2022-09	175.44	20.25	11.54
2022-10	137.67	15.02	10.91
2022-11	123.39	11.86	9.61
2022-12	119.57	10.51	8.79
2023-01	153.75	14.36	9.34
2023-02	103.42	12.15	11.75
2023-03	197.15	22.64	11.48

Table 2: Irradiation and reflectance

(38°34'57.77"N, 106°0'55.72"E) Ningxia, north western of China.

Two groups of total 20 pieces of bifacial modules of two differ

bifacial module contains 144 pieces of the half-cut cell, as shown in Table 1)

1#N-TOPCon	JKM555N-72HL4-BDV	10		Fixed axis
2#P-PERC	JKM540M-72HL4-BDVP	10		Fixed axis

Table 1: Sample information

cy at 60kWh/m² were also measured and calculated. The out
1-min interval.

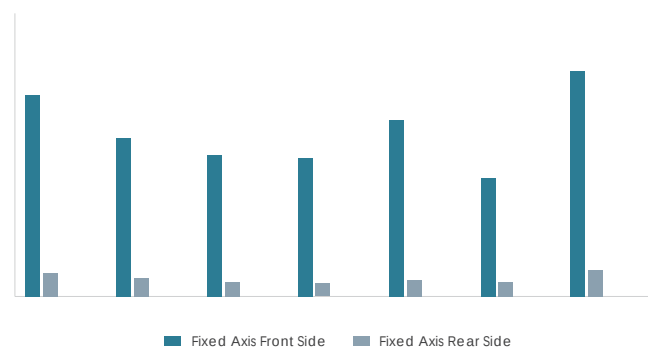


Figure 3. Monthly cumulative irradiation

tember 2022-March 2023) were shown in Table 3 and Figure 4. And the energy yield per watt (Wh/W) was calculated according to Formula 1 was indicated in Table 3 and Figure 4.

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