Double-glass bifacial battery module PID

What is bifacial PID?
Bifacial PID of bifacial p -PERC solar cells when using a glass/glass module configuration: PID-s occurring at the front/emitter side and PID-p occurring at the rear side of the solar cell. 1. Introduction

Do front junction bifacial P -PERC solar cells suffer from PID-s & PID P?
Front junction bifacial p -PERC solar cells suffer from both PID-s and PID-p. Glass/glass packaging renders bifacial solar module types more sensitive to PID. PID-s and PID-p can be easily distinguished by IV and EQE measurements.

Can bifacial P -PERC solar cells mitigate PID?
However, in the run to mitigate PID from bifacial p -PERC solar cells, a better understanding of the physical degradation mechanisms of combined PID stress of the front and the rear side (bifacial PID) of bifacial p -PERC solar cells is needed.

Does bifacial PID affect a single-cell solar cell?
All single-cell laminates were produced internally with the same lamination recipe. The impact of PID on both sidesof the solar cell,hereafter referred to as bifacial PID,was investigated using two 3.2mm SLG glass/glass (GG) single-cell laminate samples.

Do bifacial P -PERC solar cells suffer from PN-junction shunting?
The results show that bifacial p -PERC solar cells under bifacial PID stress suffer from both shuntingof the pn-junction and increased surface recombination at their rear side. Hereby,we prove that the glass/glass packaging in combination with bifacial solar cells can significantly increase the severity of PID.

What is a monofacial PID?
Two transparent backsheet/glass (BSG) and two glass/backsheet (GBS) samples were used to investigate rear side PID and front side PID of the solar cell respectively, hereafter referred to as monofacial PID.

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