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What are the processing requirements for PERC cells?

The processing requirements for PERC cells are met by the aluminium oxide deposition, the laser grooving, the conductive aluminium pastes for rear-side passivation, and the development of front-side Ag pastes for conductive contacts on PERC cells.

Will PERC become a standard technology configuration for c-Si cells?

In fact, in the next one to three years it is estimated that PERC will become the standard technology configuration for c-si cell manufacturers. Many major cell manufacturers - such as Q CELLS, SolarWorld and Trina Solar - have already begun mass production of PERC solar cells.

Why do PERC cells use high adhesion pastes?

With the distributed printing process used in PERC cells, pastes with high adhesion could be chosen for the front-side busbars to improve cell performance while maintaining the weld quality, and hence to guarantee the long-term reliability of PERC modules.

How PERC technology can improve the efficiency of PV cells?

Passivated emitter and rear cell (PERC) technology can significantly increase the absolute efficiency of PV cells by over 1.2%. Since PERC processing is also compatible with current cell processing, and does not incur overly high manufacturing costs, many PV manufacturers are focusing on developing the industrialization technologies for PERC cells.

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Considering all aforementioned material efficiency measures, the specific material demand for a PERC-based PV module is extrapolated until 2050 and is shown in Table 2 for the year 2018 ...

