

Jasmin 茉莉 cell & module pilot development

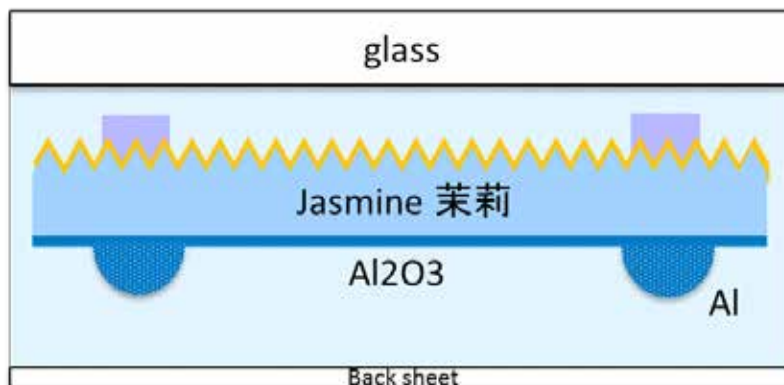
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The technology:

- A low-cost alternative to PERC (CoO&CAPEX)
 - No SiNx on the rear
 - No Laser patterning
 - Al grid metallization rather than full-area
 - Lower TMA consumption



Specifics:

- Proprietary solution for LBSF based on existing industrial technologies
- Current lab efficiency 20% on Cz
- Expectation >20% in Q3-2016; >20.5% in pilot
- More freedom in Al₂O₃ vendor choice
- Options for bifaciality

We offer development collaboration on:

- Lab-to-fab transfer on your pilot
- Efficiency increase and optimize bifaciality
- Optimize proprietary LBSF solution
- Eliminate PDA in process
- Customer specific wishes!

Why ECN?

- ECN has significant lab-to-fab experience
- Proprietary Breakthrough in firing through AlOx