PV Ribbon: Module Application Record

RT-PV-APP-20261116-EN V1.0

Raytron project and application records as of November 2026.

Cumulative module application	Raytron copper-aluminum composite ribbon has been used in modules totaling more than 50 GW, including BC and TOPCon designs, according to Raytron application records as of November 2026.
Lower replaced-ribbon purchasing cost	In some Chinese module-customer projects, purchasing cost for the replaced ribbon was more than 50% lower than the previous copper-ribbon solution. The percentage covers that ribbon purchase only.
TOPCon application power difference	In a 650 W-class TOPCon application, the 0.24 mm CCA-ribbon design was 3 W below the 0.24 mm copper-ribbon reference. The guide uses 650 W / 647 W to normalize the comparison.

TOPCon trial setup

For the documented round CCA substitution, disable or bypass the existing local flattening step. Confirm the revised recipe and compare the same cell layout, joint condition, EL and module power before release.

Application record and source reference

Stringing trial process

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