

Supplementary Material

P-V curves for each shading pattern and irradiance level

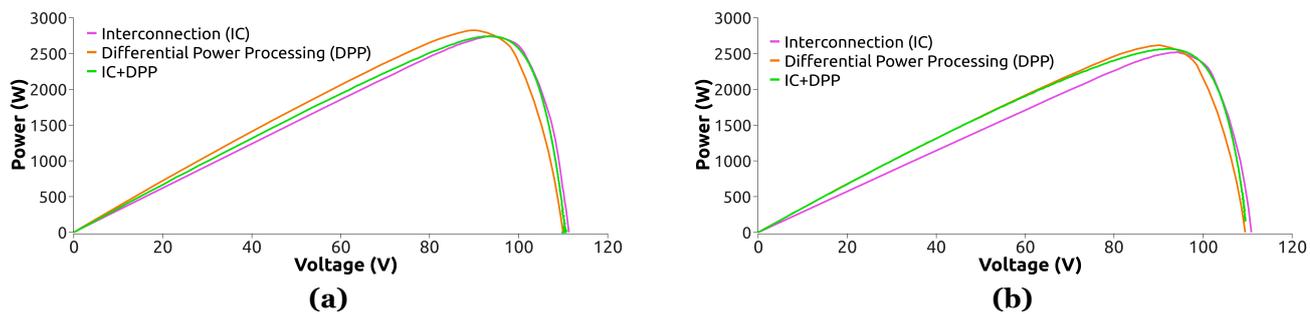


Figure S1. Long column: **(a)** 700 W/m²; **(b)** 400 W/m².

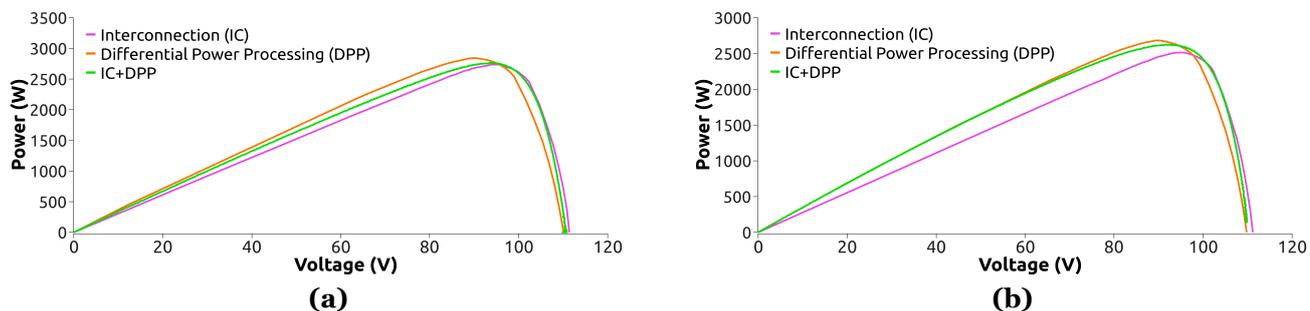


Figure S2. Partial column: **(a)** 700 W/m²; **(b)** 400 W/m².

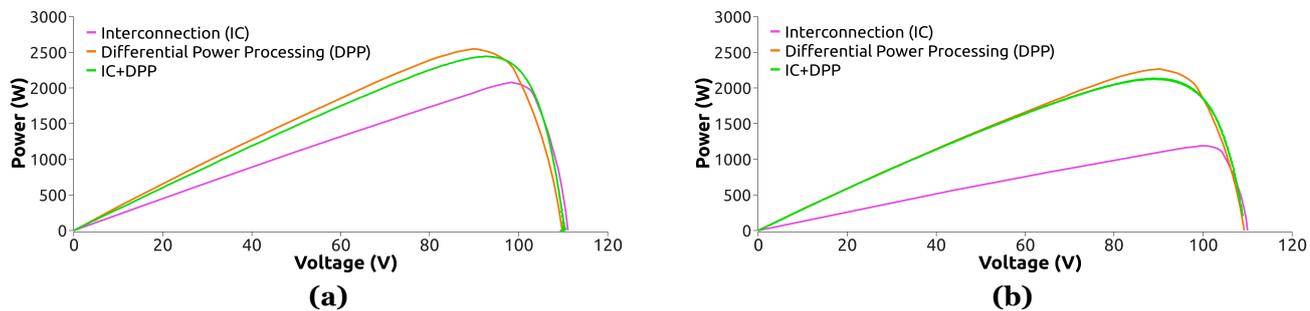


Figure S3. Long narrow: **(a)** 700 W/m²; **(b)** 400 W/m².

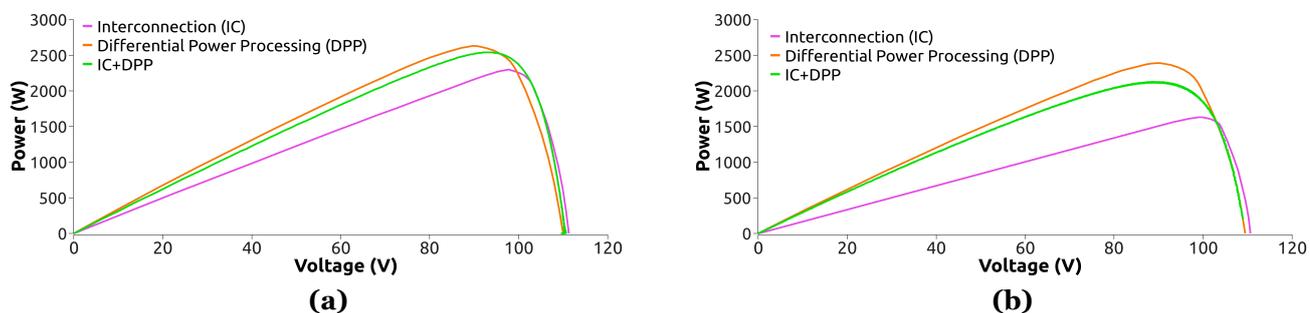
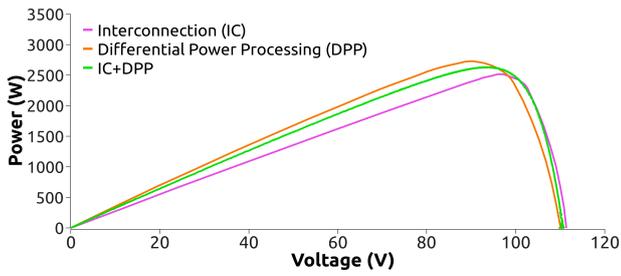
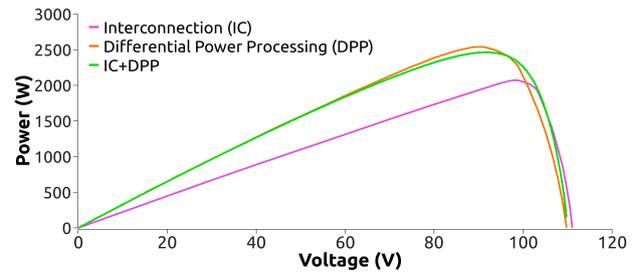


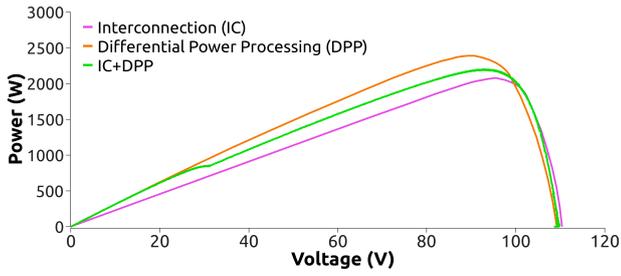
Figure S4. Medium narrow: **(a)** 700 W/m²; **(b)** 400 W/m².



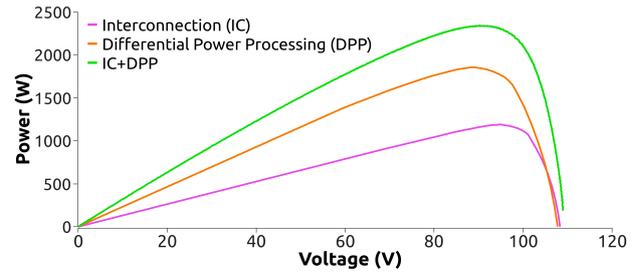
(a)



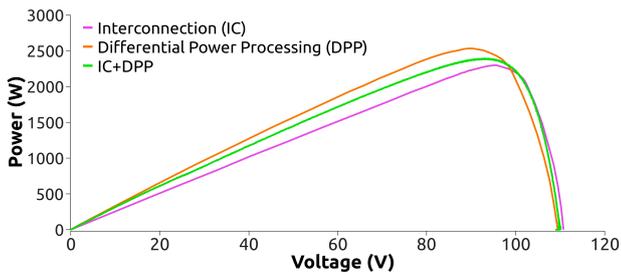
(b)

Figure S5. Short narrow: (a) 700 W/m²; (b) 400 W/m².

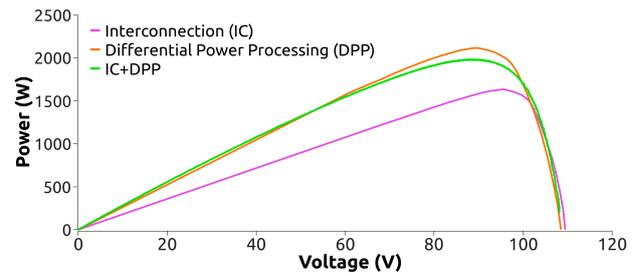
(a)



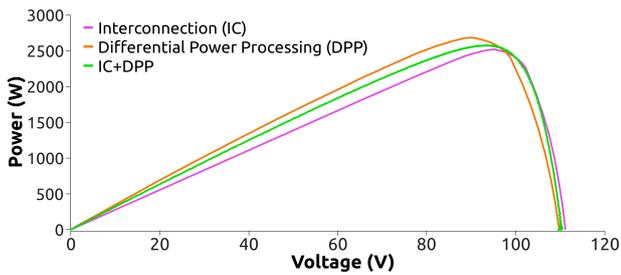
(b)

Figure S6. Long wide: (a) 700 W/m²; (b) 400 W/m².

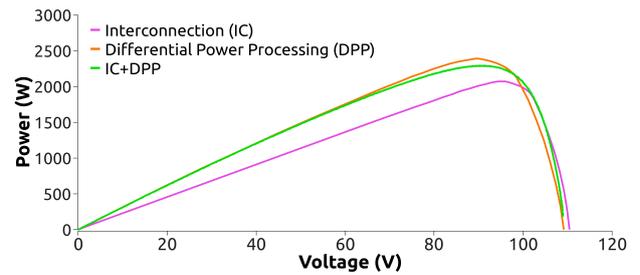
(a)



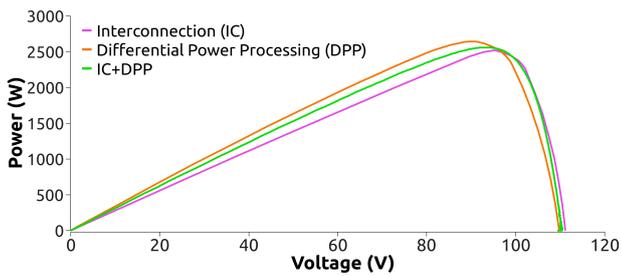
(b)

Figure S7. Medium wide: (a) 700 W/m²; (b) 400 W/m².

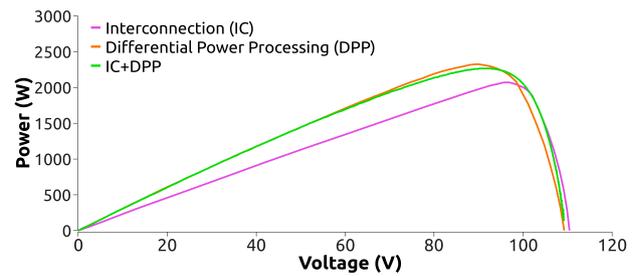
(a)



(b)

Figure S8. Short wide: (a) 700 W/m²; (b) 400 W/m².

(a)



(b)

Figure S9. Long diagonal: (a) 700 W/m²; (b) 400 W/m².

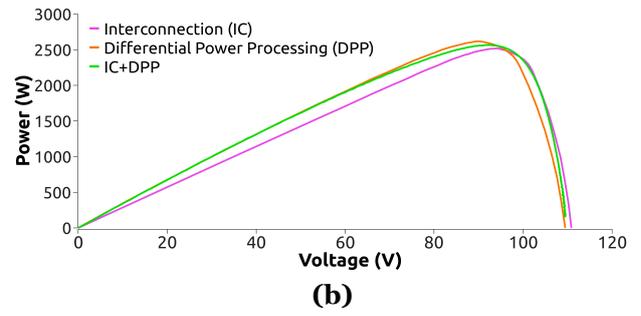
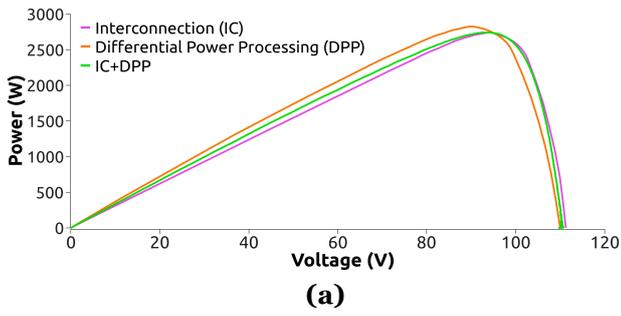


Figure S10. Short diagonal: (a) 700 W/m²; (b) 400 W/m².

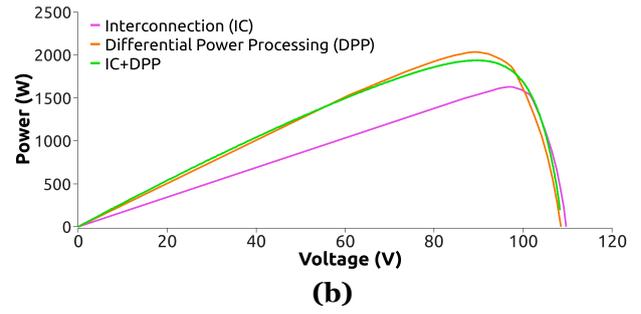
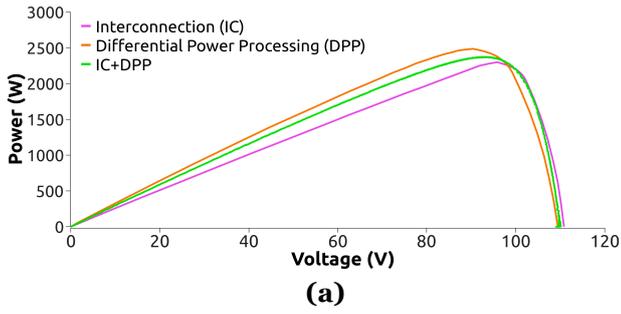


Figure S11. Long corner: (a) 700 W/m²; (b) 400 W/m².

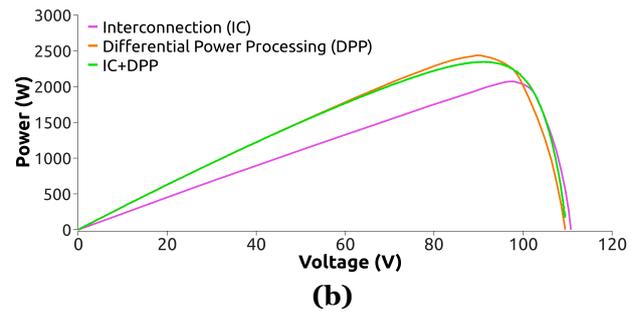
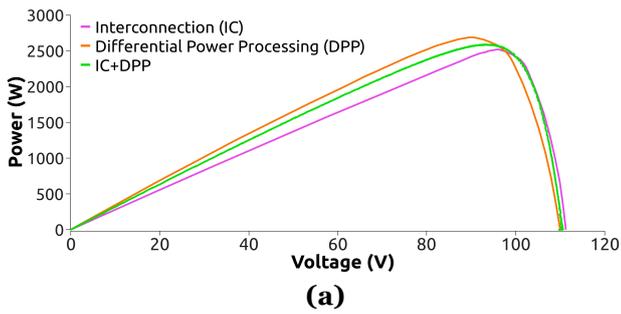


Figure S12. Medium corner: (a) 700 W/m²; (b) 400 W/m².

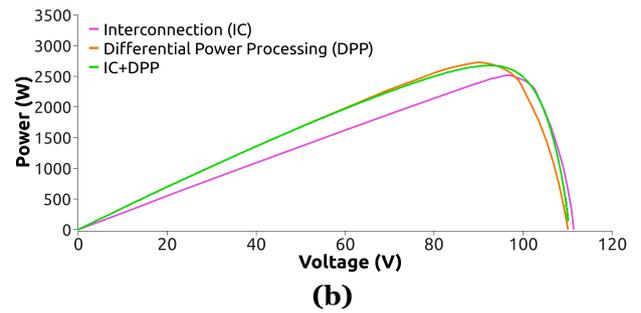
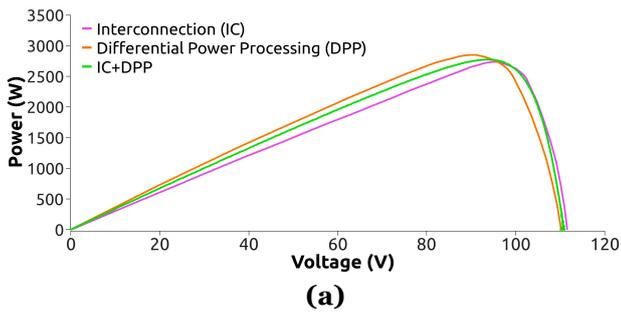


Figure S13. Short corner: (a) 700 W/m²; (b) 400 W/m².