

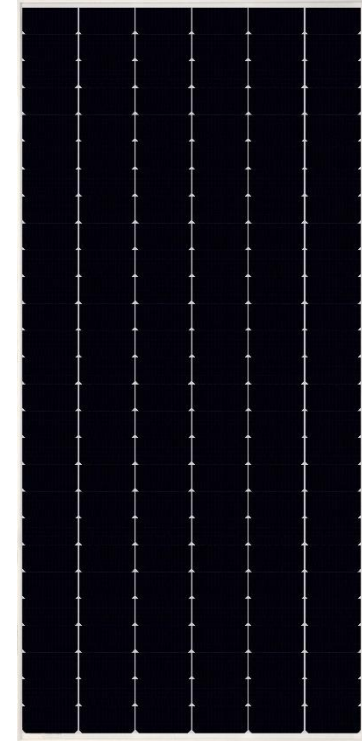
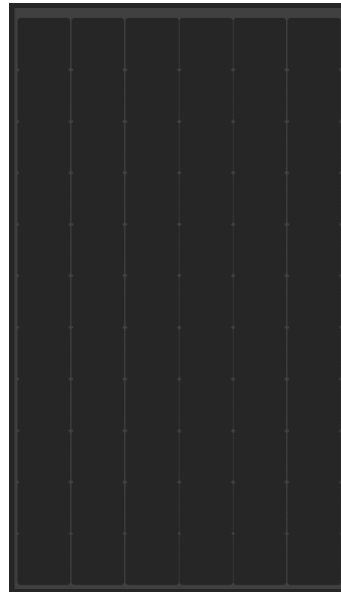
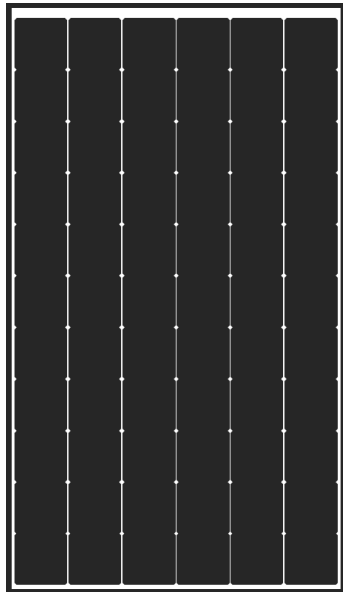
CANADIAN SOLAR HiDM

July 2019

Modules - the Family Tree

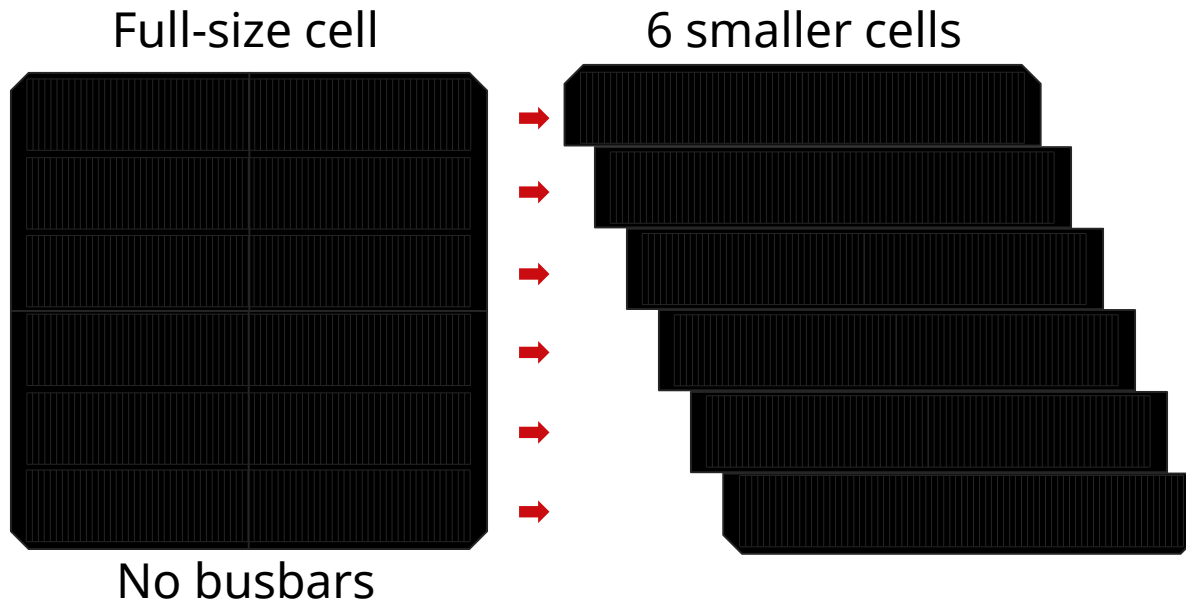
CANADIAN SOLAR

CS1

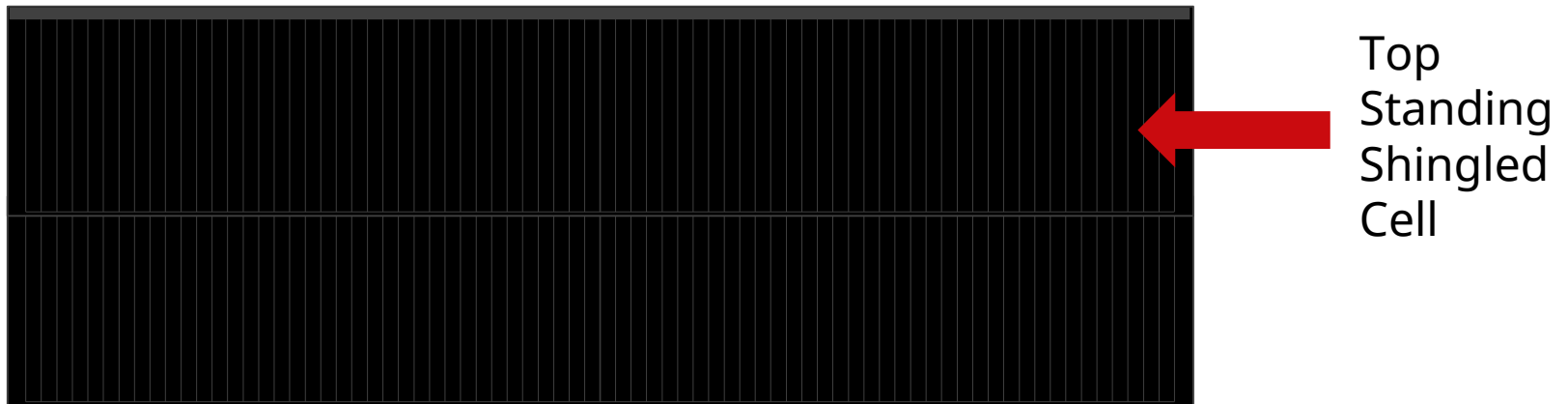
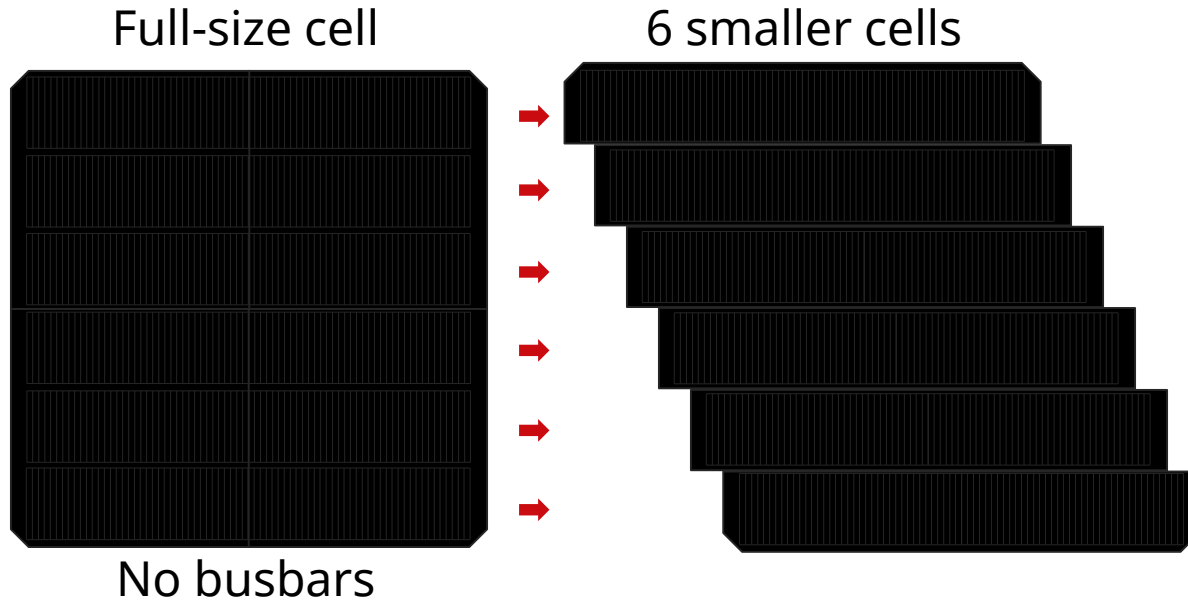


HiDM	HiDM	HiDM
CS1H-MS	CS1H-MS-AB	CS1U-MS
[330-335]	[325-330]	[400-410]

HiDM: Shingled cells for maximum efficiency

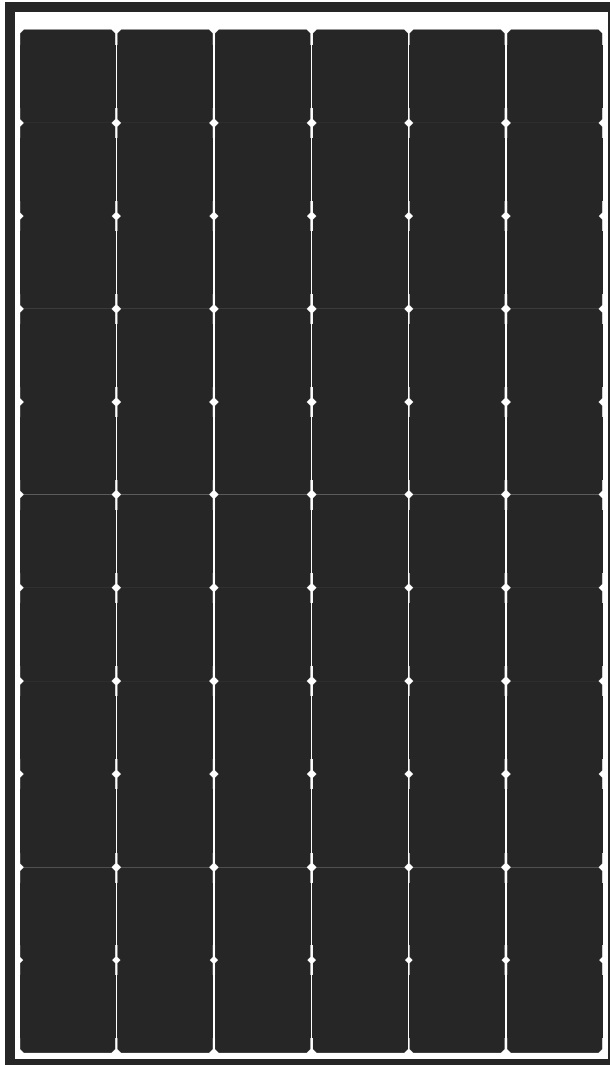




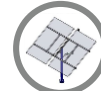


HiDM: Shingled cells for maximum efficiency

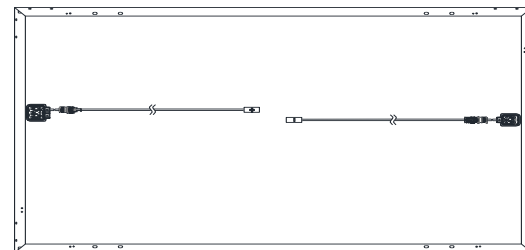


HiDM CS1H-MS: highest efficiency in 60-cell size

335 Watt, ~20% efficiency

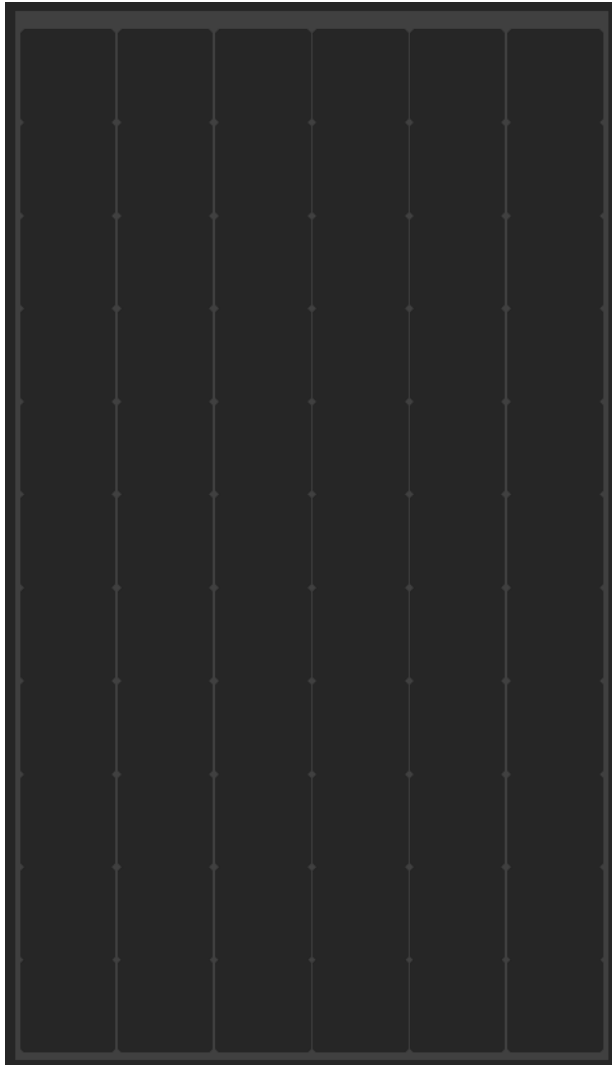


-  Higher module efficiency, More energy.
-  Pretty appearance with no ribbon design
-  Better shading tolerance
-  Low hot-spot risk and lower operation temperature
-  Minimize micro-crack risk



HiDM CS1H-MS-AB: the perfect All-Black

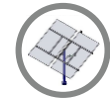
330 Watt, ~20% efficiency



Higher module efficiency, More energy.



Pretty appearance with no ribbon design



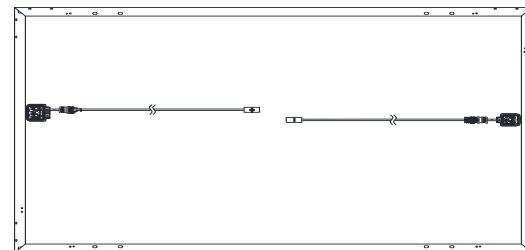
Better shading tolerance



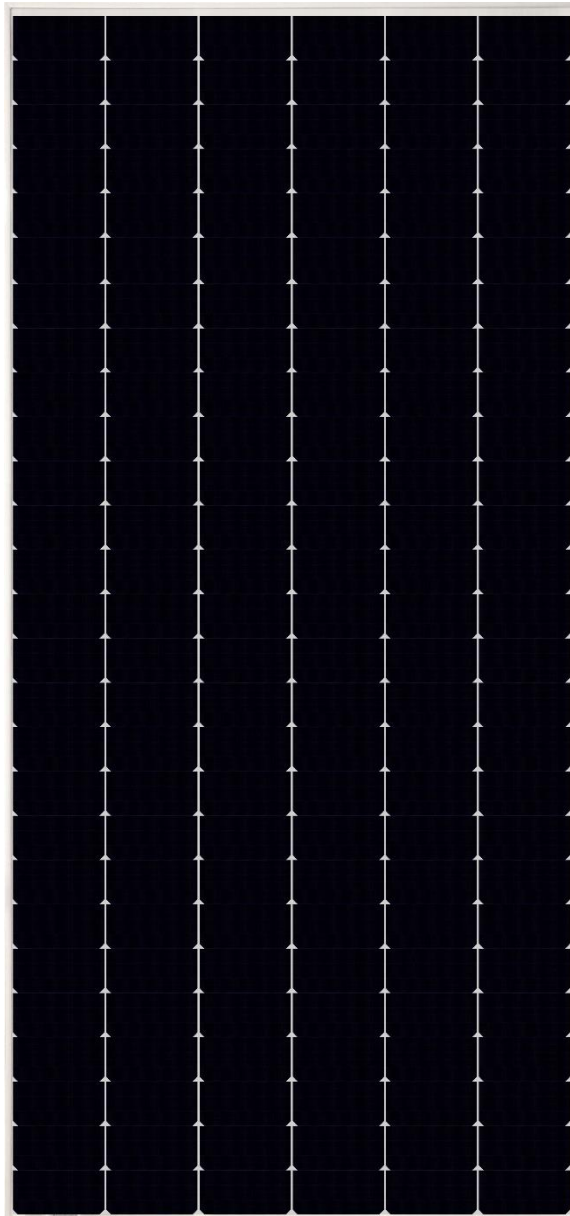
Low hot-spot risk and lower operation temperature








Minimize micro-crack risk

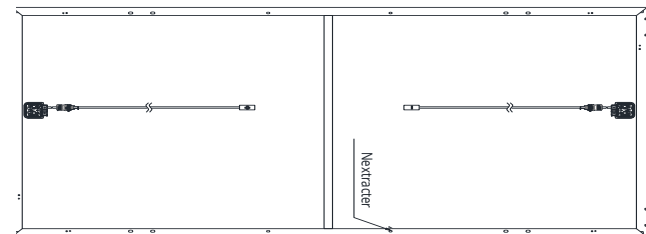


HiDM CS1U-MS: highest efficiency in 72-cell size

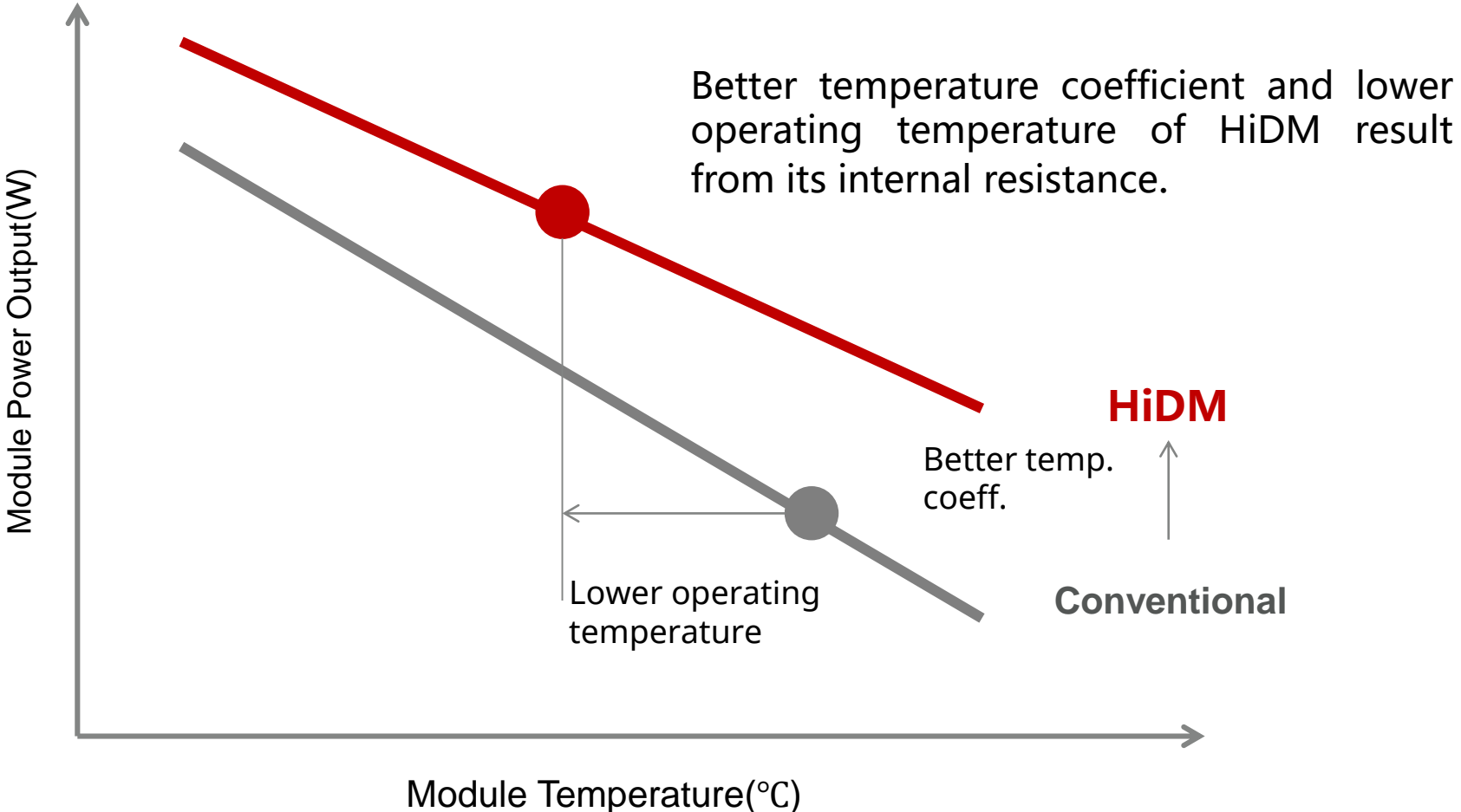


405 Watt, ~20% efficiency

-  Higher module efficiency, More energy.
-  Pretty appearance with no ribbon design
-  Better shading tolerance
-  Low hot-spot risk and lower operation temperature
-  Minimize micro-crack risk



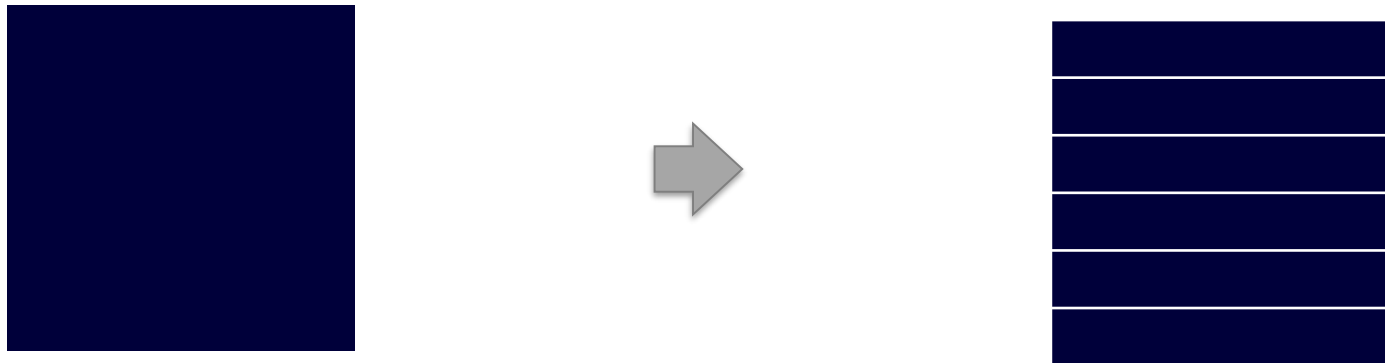
Perform better in sunny and hot weather



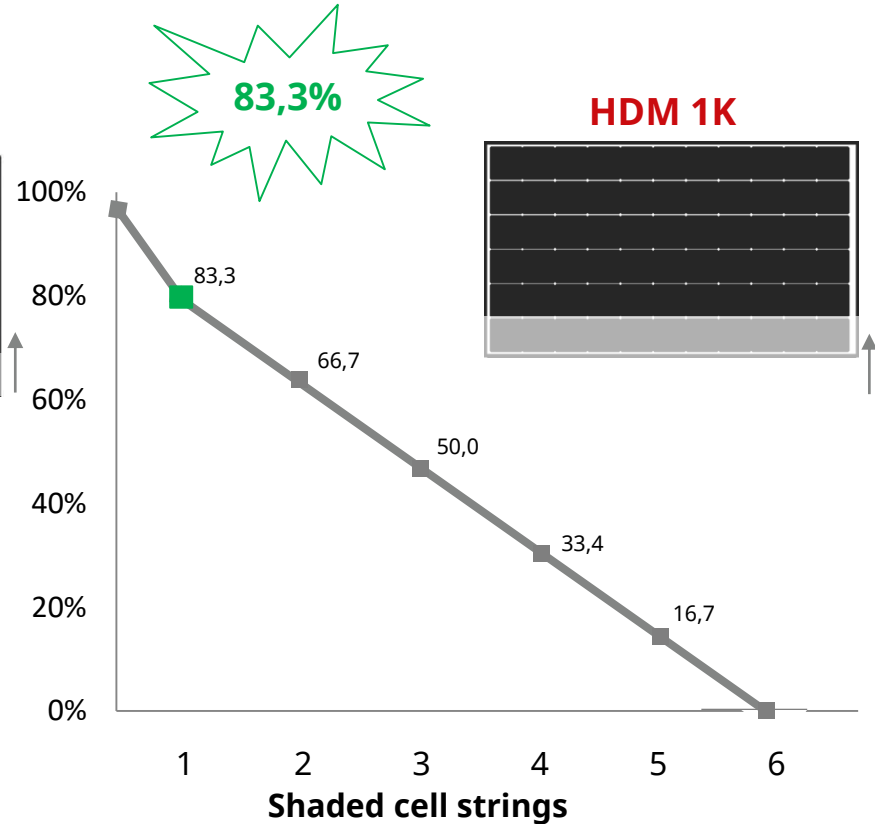
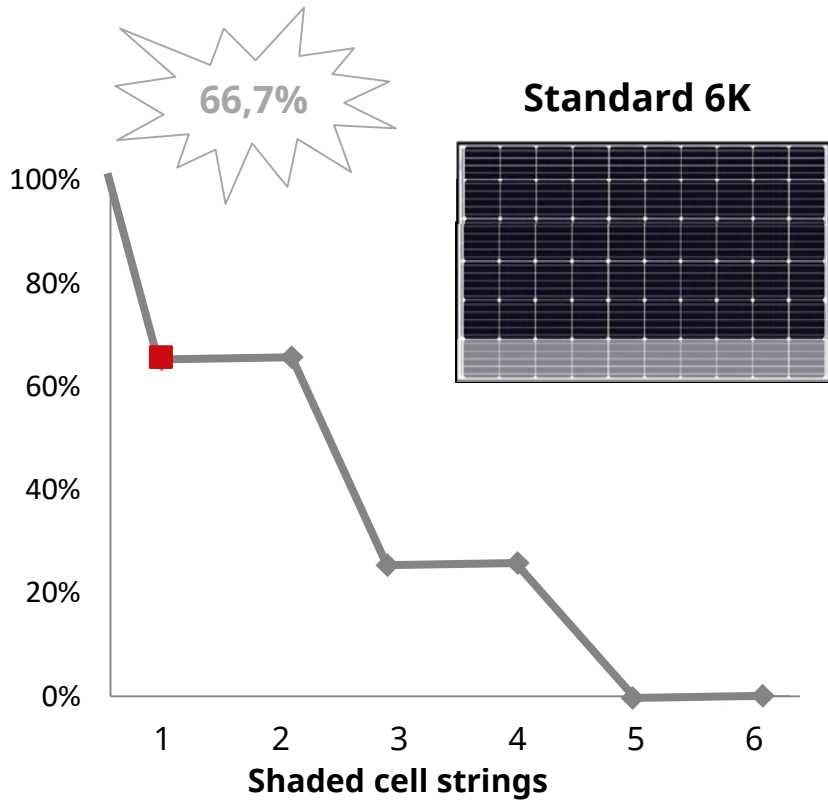
Minimize micro-cracks, enhance the long term reliability

Cell crack propagation stopped by cell edge.

HiDM cell damage impact area potentially reduced by up to 83%. Enhance the reliability of PV module.



Better shading performance



- HiDM has lineal losses in for long-side shading
- HiDM has much lower losses for spot shading

THANK YOU

Canadian Solar EMEA