ECO DELTA high-efficiency shingled modules introduction

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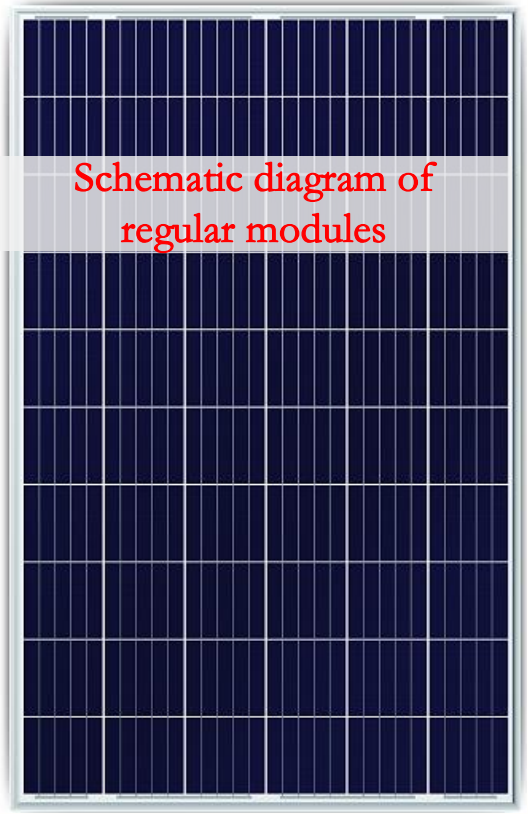
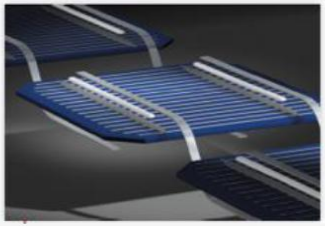
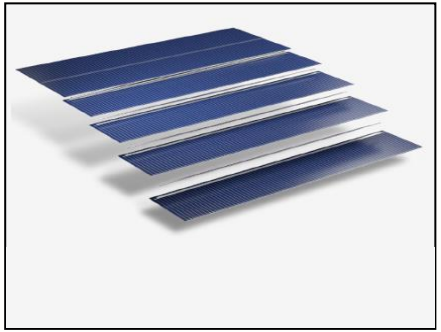
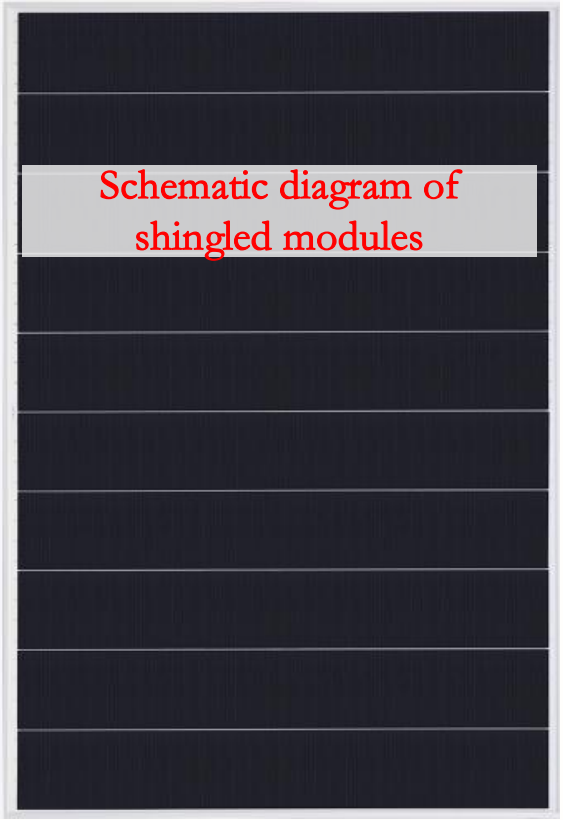


Traditional modules
The crystalline silicon module cells are connected by solder ribbon

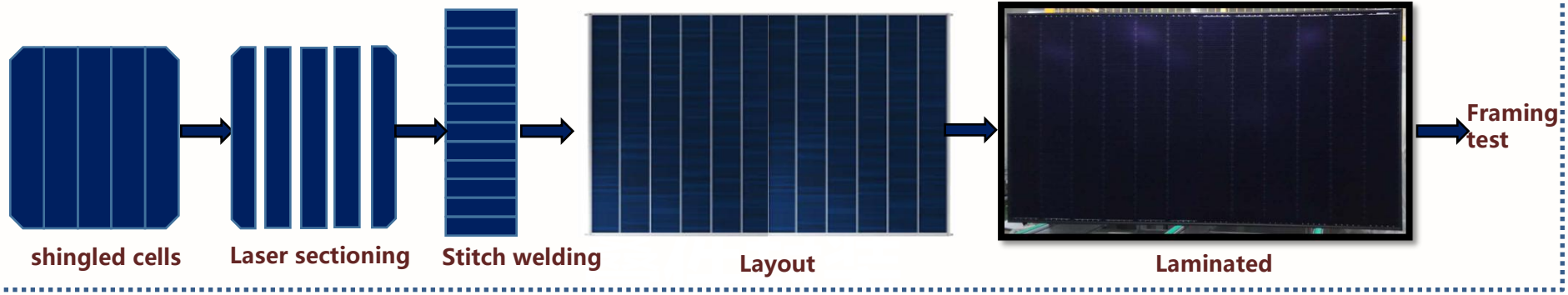


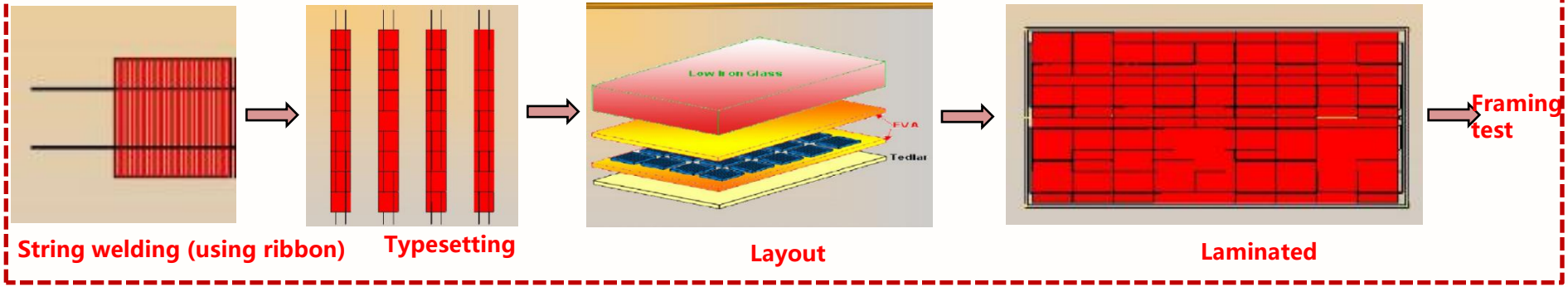


Shingled modules
The crystalline silicon module cells are connected by conductive glue



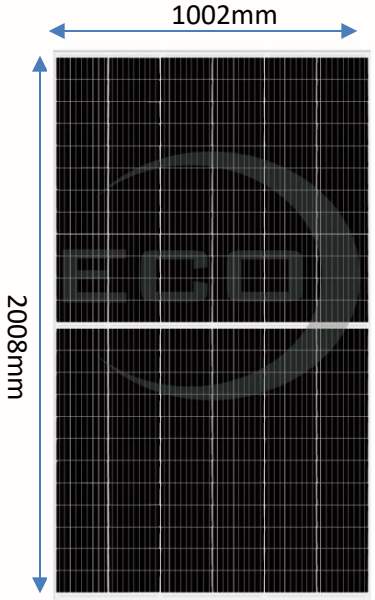
Shingled modules introduction-difference

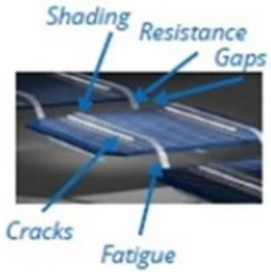




Advantages of shingled modules

Super high efficiency



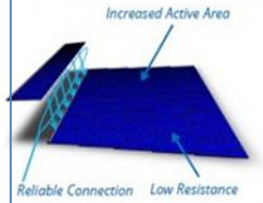


Cell usage increased by 13%

The actual light-receiving area increased by more than 10%

All five ways current reduced to 1/5

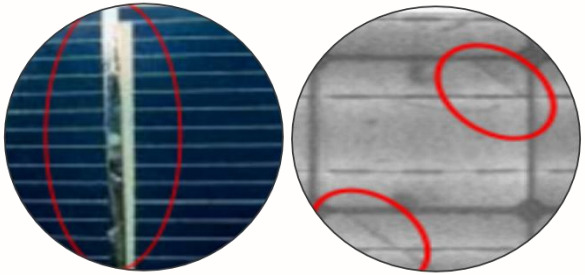
Suitable for high-efficiency battery packaging



PERC single crystal half-cell module 415W
Module efficiency 20.63%

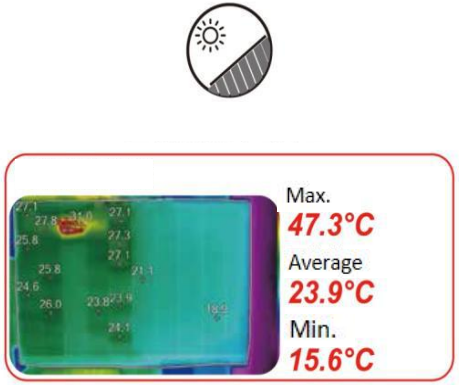
PERC shingled modules 475W+
Module efficiency≥21.16%

Superior reliability



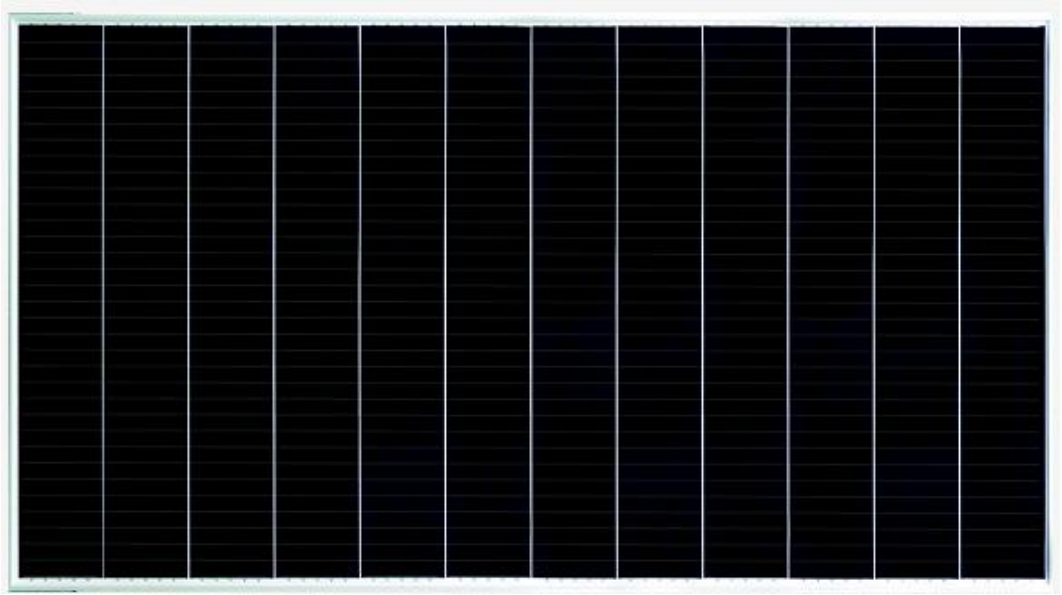
Exposure of conventional components and cracks in the solder ribbon

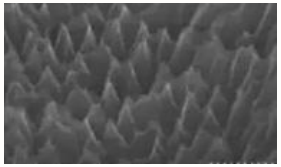
The non-strip connection method eliminates the two stubborn diseases of whiteness and cracking at the welding strip

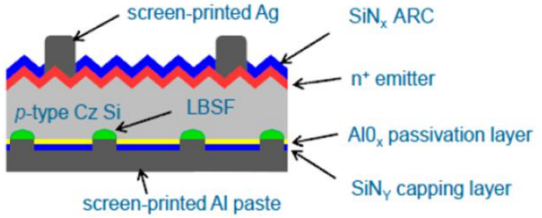


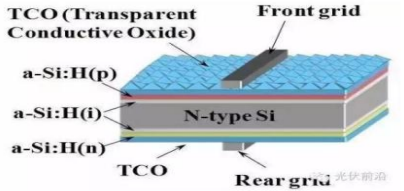
34 small pieces are connected in series, the current is 1/5 of the conventional module, which significantly reduces the hot spot effect

Compatible with a variety of batteries, strong scalability



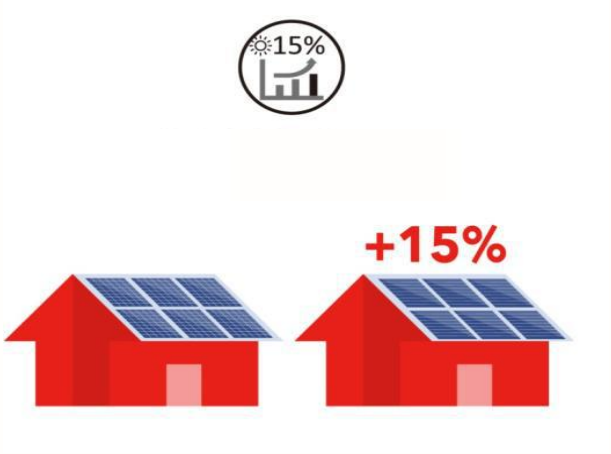


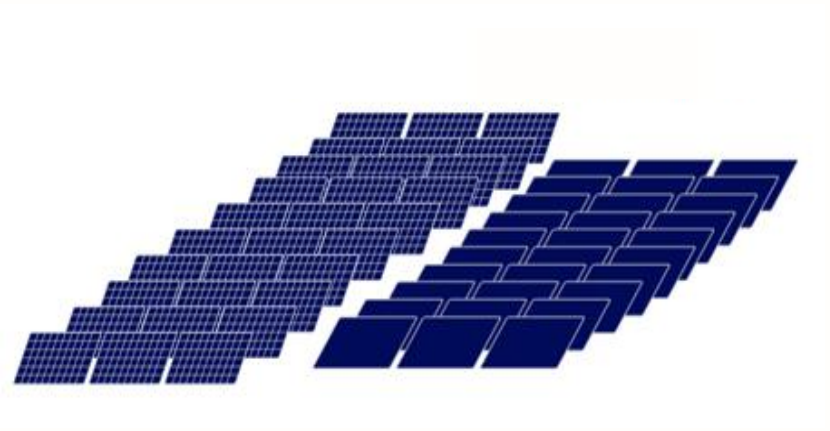




The shingling process can be matched with the current mainstream technology routes of crystalline silicon cells, such as black silicon, PERC, HJT, etc. As a component packaging platform, it has strong scalability.

High power generation





The power generation is 15% higher than that of conventional modules, the same power output, the floor space is reduced by about 8%

Ultra-low cost

Logistics and transportation save 12%

The cost of installing BOS in power plants drops by 10-13%

The total installed power station increased by 5%

Advantages of shingled module

Strong ability to resist snow (melting)

Great appearance

The shingled module is designed with a parallel and series circuit structure, and the battery string runs along the short side of the module. Vertically installed components are more likely to accelerate snow melting when snow is covered, reduce covering time and increase power generation.

The front side of the shingled component is not covered by conventional welding tape, the structure is simple, and the appearance is more beautiful. At the same time, it is easier to find defects in appearance quality and facilitate operation and maintenance.

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Thanks For Watching!