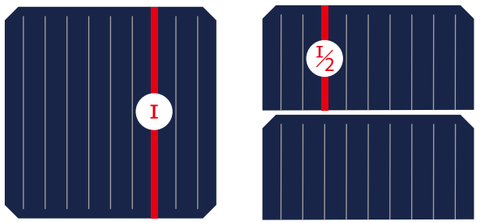
Half-cut Technology

Higher Power & More Reliable

Half-cut cell technology is to cut the cell into two separate parts by mature infrared laser, hence halve the working current. The thermal loss on the ribbon will be remarkably reduced and the module's power increased by 2%. Smaller cells experience reduced mechanical stresses, so there is a decreased opportunity for cracking. Half-cell modules have higher output ratings and are more reliable than traditional modules.

The combination of half-cut cell technology and bifacial module can amplify the gain over the effect of current-reduction.



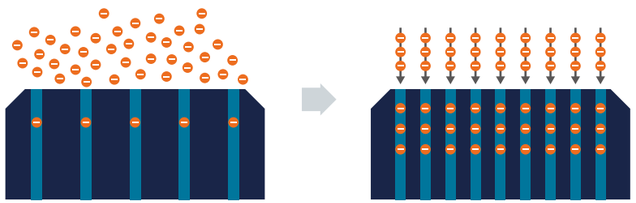
MBB Technology

Less Shading, More Output

MBB (Multi-busbar) is an optimized design of solar cell, which uses multiple copper wires to form shorter current paths on a solar cell for improvement of current collection efficiency. Compared to traditional flat copper ribbons, copper wires of circular design are utilized to increase the amount of light incident on the solar cells, such that the power generation performance of module is improved further.

In addition, by using the multi-busbar design, the impact of external force on solar cell can be reduced effectively, and the range of micro cracks is limited to prevent current transmission path (current distribution) from further damage, so that the solar module can maintain a stable output performance for a long period of time. Thus, this is a new generation technology that enhances both power performance and reliability simultaneously.

Multi-busbar reduces current loss



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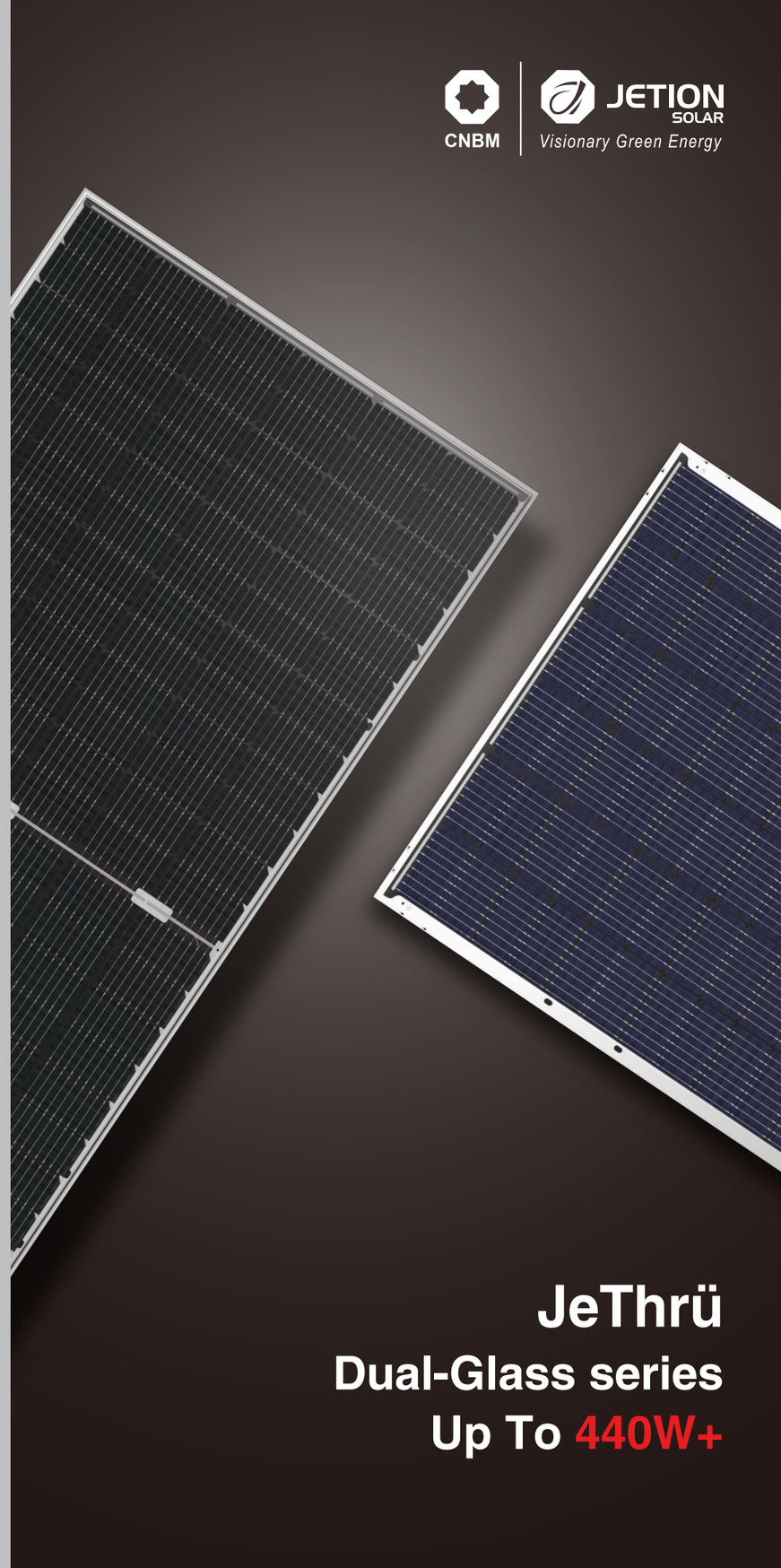


JeThrü

Dual-Glass series

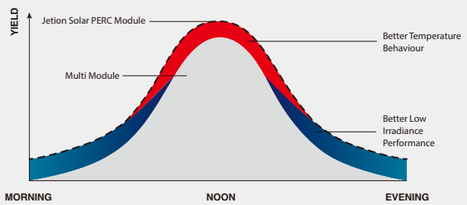
Up To 440W+

PERC Technology

More Energy Yield & Cost-Effective

PERC (Passivated Emitter Rear Cell) technology is the standard state-of-the-art solar cell technology today. PERC is considered as an effective solution to increase the energy yield and reduce the LCOE levelized costs of electricity (LCOE) in a real PV system. By depositing a rear surface passivation film on monocrystalline material, the PERC technology can increase the cell performance to more than 23.0 % - especially when a selective emitter is used.

In 2017, Jetion Solar released the first PERC module with 21.0% cell efficiency. At present, the cell efficiency has been increased to over 23.0%.



Outstanding low irradiance performance, low power-temperature coefficient, low operating temperature, all these technologies lead to a high energy yield.

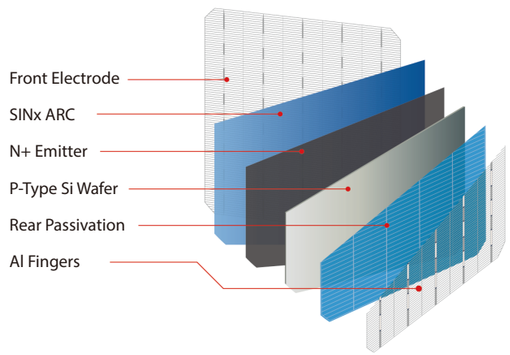
Bifacial PERC Technology

Maximum 80% Bifaciality, Harvest More Sunshine

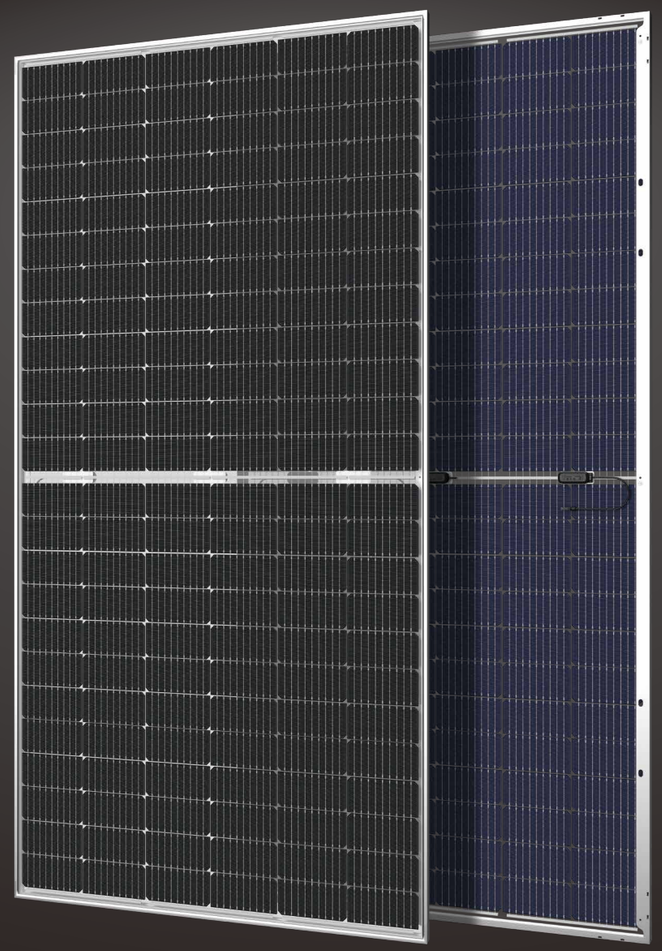
Bifacial technology lifts solar power to the next level. Instead of hiding the back side of solar cells with an opaque polymer sheet to protect them from diffused and reflected light, the rear is now also open for sunlight absorption.

For a bifacial PERC cell, the Al back surface field is replaced by Al grid, hence render the majority of rear side transparent and attain a bifaciality of 75% - 80%. The front side is equivalent to conventional PERC with cell efficiency exceeding 22%. Meanwhile, the back side adopts a glass package, achieving bifacial light reception and power generation. The backside can increase energy yield up to 25% (varying with the design and background condition of the PV system), and can bring higher returns to the investors.

Bifacial PERC technology is currently regarded as one of the most advanced and cost-effective technical solutions to reduce the levelized cost of electricity (LCOE) of solar energy generation.



Introducing JeThrü Dual-Glass series Up To 440W+



PERC technology

The PERC technology features were the reduction of rear surface recombination by a combination of dielectric surface passivation and reduced metal/semiconductor contact area while simultaneously increasing rear surface reflection by use of a dielectrically displaced rear metal reflector.

Bifacial cell technology

Generate electricity from backside of solar cell with environmental light reflections, brings additional 5%-25% more power generation.

9 busbar cell technology

Increased cell bus-bar means more paths for electric charges, so there would be less resistance losses and more emitted electrons can be captured, thus it can increase power output by 2%.

1500V DC

High system voltage of J-box and glasses, reduce PV system cost.

Split module design

Better performance in shading conditions with split module design

Half-cut cell technology

Through reducing length of cell spacing, two half-cut cells can provide higher electric current, thus enhance 3% of power output. The output of two 9 bus-bar half-cut cells is even higher than one 12 bus-bar full cell.

Ultra high strength frame

Specially designed for "JeThrü" bifacial dual-glass series, passed 7200 Pa (front) mechanical load test for 1.6mm+1.6mm, and 8100 Pa for 2.0mm+2.0mm, reduce shading with no C side design for short frame.

1.6mm/2.0mm ultra-thin glass

Use the most state-of-the-art 1.6mm ultra-thin super transparent semi-tempered glass, higher light transmittance, 20% or more lighter, but yet still tough with dual glass design.

Electrical Characteristics at STC

SIh (MB) 355-370W

Pmax (W)	355	360	365	370
Vmp (V)	33.7	33.9	34.1	34.3
Imp (A)	10.54	10.62	10.71	10.79
Eff (%)	18.9%	19.2%	19.5%	19.7%
Size / Weight	1788×1049×25 mm / 20.5kg			
Cell Arrangement	120 [2 x (10 x 6)]			

SSh (MB) 425-440W

Pmax (W)	425	430	435	440
Vmp (V)	40.4	40.6	40.8	41.0
Imp (A)	10.52	10.60	10.67	10.74
Eff (%)	19.0%	19.3%	19.5%	19.7%
Size / Weight	2129×1049×25 mm / 27.5kg			
Cell Arrangement	144 [2 x (12 x 6)]			

Technical data above mentioned may be of modification, please request for the latest datasheet.