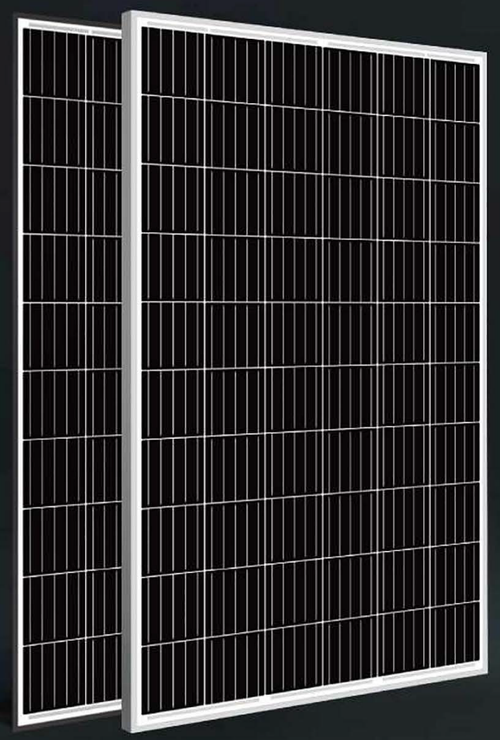
GPS
MONACO Group
Renewable Energy

Solar Panels Catalog

1



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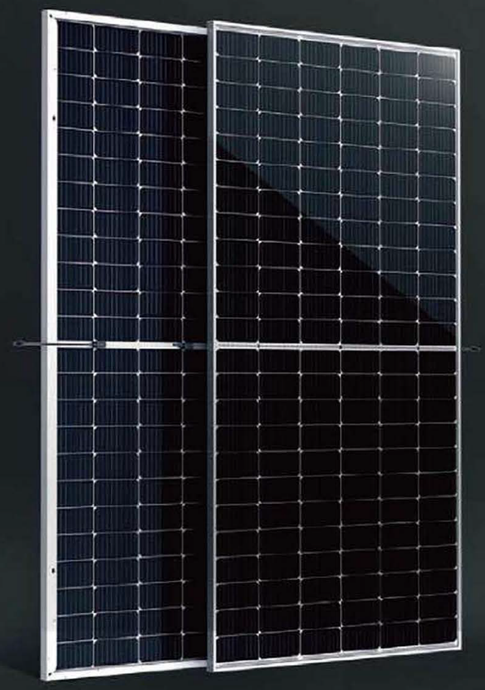

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1 ALL BLACK

Hot Product

DIVERSIFIED SOLAR MODULES MEET DIFFERENT NEEDS

	Module	Maximum Power	Size / Weight / Packing (pallet/20GP'/40HQ)
1	GPS-01	355 - 385 W	1755 x 1038 x 35 mm / 19.5 kg/ 30/180/780pcs
	GPS-02	445 - 470 W	2094 x 1038 x 35 mm / 23.5 kg/30/150/660pcs
3	GPS-03	355 - 380 W	1755 x 1038 x 30 /35mm / 23.3 kg/30/180/780pcs
	GPS-04	445 - 470 W	2094 x 1038 x 35 mm / 26.5 kg/30/150/660pcs
4	GPS-05	350 - 380 W	1755 x 1038 x 35 mm / 19.5 kg/30/180/780pcs
	GPS-06	440 - 465 W	2094 x 1038 x 35 mm / 23.5 kg/30/150/660pcs
2 G1/158.75x158.75mm	GPS-07	380 - 430 W	2008 x 1002 x 35 mm / 22.5kg/30/840pcs
	GPS-08	315 - 335 W	1665 x 1002 x 35 mm / 19.0kg/ 30/840pcs

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New Product

182MM CELLLS PV MODULE

best choice for ultra-large power plants.
Advanced module technology delivers superior module efficiency. Globally validated bifacial energy yield. High module quality ensures long-term reliability.

	Module	Maximum Power	Size / Weight / Packing (pallet/40HQ)
5	GPS-09	400-420 W	1722 x 1134 x 30 mm / 20.5kg/936pcs
	GPS-10	440-460 W	1908 x 1133 x 35 mm / 24kg/744pcs
	GPS-11	485- 510 W	2094 x 1134 x 35 mm / 25.5 kg/682pcs
	GPS-12	535- 560 W	2279 x 1134 x 35 mm / 28kg/620pcs
	GPS-13	575- 605 W	2465 x 1134 x 35 mm / 32.1kg/496pcs
6	GPS-14	395- 415 W	1722 x 1134 x 30 mm / 20.5 kg/936pcs
	GPS-15	435- 455 W	1908 x 1133 x 35 mm / 24 kg/744pcs
	GPS-16	480-505 W	2094 x 1134 x 35 mm /25.5 kg/682pcs
	GPS-17	530-555 W	2279 x 1134 x 35 mm / 28kg/620pcs
	GPS-18	570-600 W	2465 x 1134 x 35 mm / 32.1kg/496pcs
7	GPS-19	440-460 W	1908x1133 x 35 mm / 26.5 kg/744pcs
	GPS-20	485- 510 W	2094 x 1134 x 35 mm / 28 kg/682pcs
	GPS-21	535-560 W	2279 x 1134 x 35 mm / 32kg/620pcs
	GPS-22	575-605 W	2465 x 1134 x 35 mm / 34.6kg/496pcs

605W
Max Power

21.65%
Max Module Eff.

182mm
Solar Cell.

New Product 6

CELLLS PV MODULE

490-700W

best choice for ultra-large power plants. Advanced module technology delivers superior module efficiency. Globally validated bifacial energy yield. High module quality ensures long-term reliability.

Comprehensive Products &System Certificates

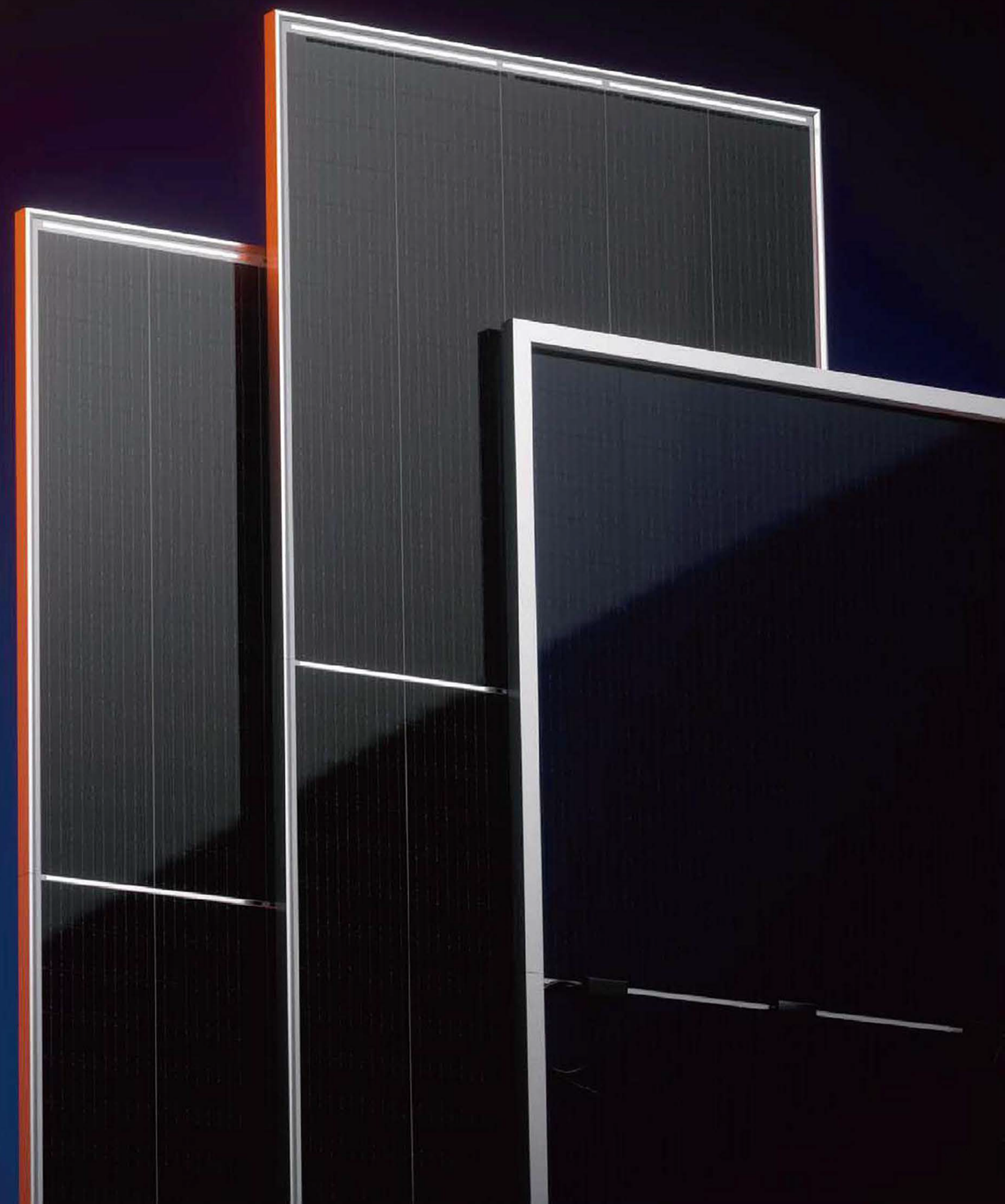
IEC 61215 / IEC 61730 / CE / INMETRO OHSAS 18001, ISO 14001, ISO 9001

Super Performance & Stable Returns
Low hot spot & anti-PID, to ensure module operation optimally

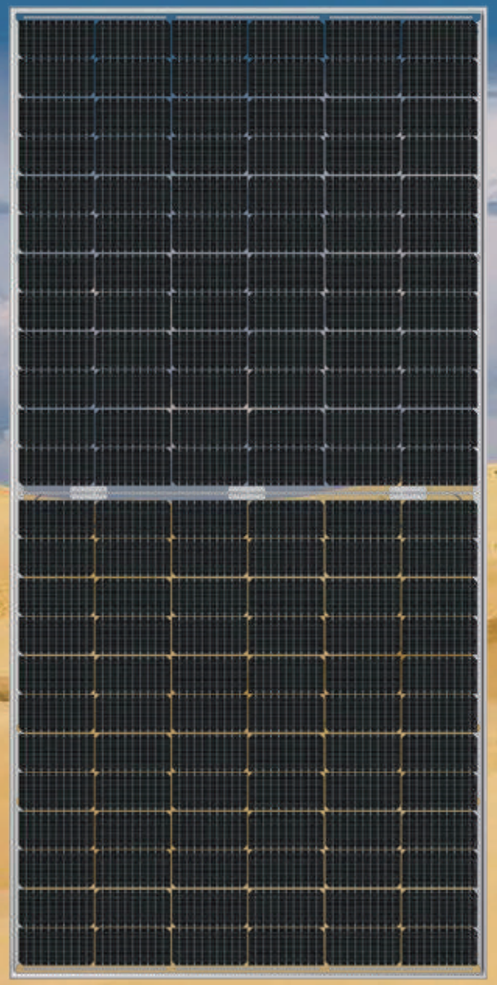
Various Application Scenarios
Strong weather resistance, easy installation in deserts, coastal areas, mountains and various roofs

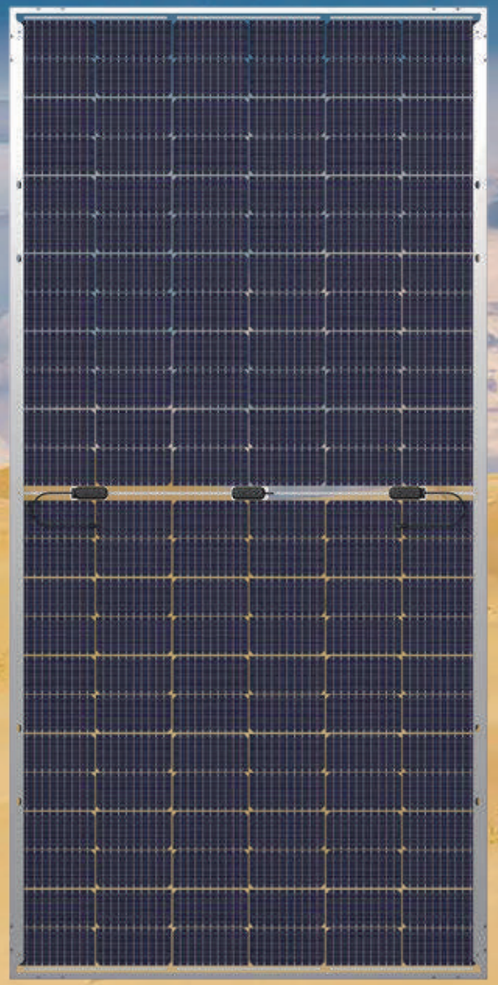
Technology & Process Upgrade
210+10BB+half-cell, higher power generation with the same installation

	Module	Maximum Power	Size / Weight/Packing(pallet/40HQ)
8	GPS-23	585-610 W	2172 × 1303 × 35 mm / 30.9kg/558pcs
	GPS-24	490-515 W	2187 × 1102 × 35 mm / 26.3kg/ 620pcs
	GPS-25	660-700 W	2384 × 1303 × 35 mm / 33.6 kg/558pcs
	GPS-26	535-560 W	2384 × 1096 × 35 mm / 28.6 kg/620pcs
	GPS-27	580-605 W	2172 × 1303 × 35 mm / 30.9 kg/ 558pcs
	GPS-28	485-510 W	2187 × 1102 × 35 mm / 26.3 kg / 620pcs
	GPS-29	655-695 W	2384 × 1303 × 35 mm / 33.6 kg / 558pcs
	GPS-30	530-555 W	2384 × 1096 × 35 mm / 28.6 kg / 620pcs
9	GPS-31	660-700 W	2384 × 1303 × 35 mm / 38.7 kg / 558pcs
	GPS-32	535-560 W	2384 × 1096 × 30mm / 32.3 kg / 720pcs
	GPS-33	585-610 W	2172 × 1303 × 35 mm / 35.3kg/ 549pcs



WE PAY ATTENTION TO DETAIL





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.

Multi 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%.

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.

Bifacial cell technology

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

1500V DC

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

Ultra high strength frame

Specially designed , passed 7200 Pa (front) mechanical load test, reducing shading with no C side design for Splitmodule design short frame.

Special frame design with anti-fouling patent

155-degree angle, excellent anti-fouling performance, improve long-term power generation performance

Higher Power & More Reliable

HALF-CUT TECHNOLOGY

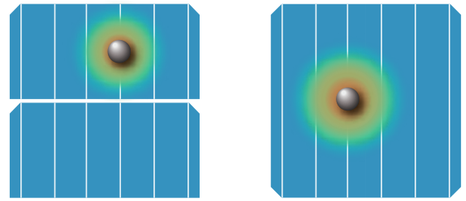
Half-cut cell technology is to cut the cell into two parts by mature infrared laser, hence halve the working current. The thermal loss on the ribbon will be remarkably reduced and the module's power increases by 2%.The reliability of module is also enhanced.

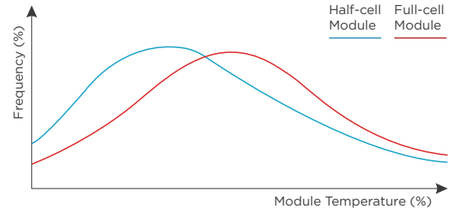
The combination of half-cut cell technology and bifacial module can amplify the gain over the effect of current-reduction.

1 Lower Hot Spot Temperature

In field applications, small area shadings can cause the temperature of those parts extremely high. This phenomena is called hot spot. The long duration of hot spot could bring irreversible degradation of modules.

Because the string current of half-cell modules is half of full-cell modules, the hot spot temperature can be obviously reduced. experiments show that this reduction could be 10-20° C, which increases the module reliability.



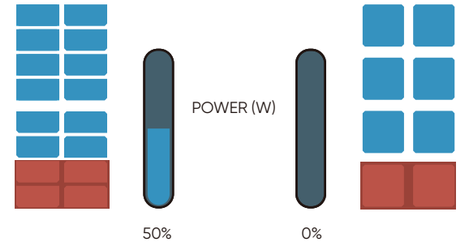


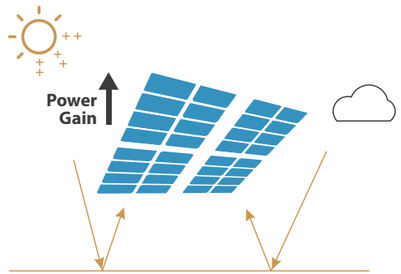
2 Lower Operating Temperature

Half-cut cells have half of the working current, thereby the thermal loss is remarkably reduced. Operating temperature correspondingly decreases, and the reliability of module is improved as well as power gain.

3 Lower Shading Loss

Because of the unique parallel connection design, half-cell modules still have 50% power output under the circumstance of array shading in sunrise or sunset when portrait installation. In addition, half-cut technology can improve the output of bifacial module under non-uniform incident illumination on the backside.



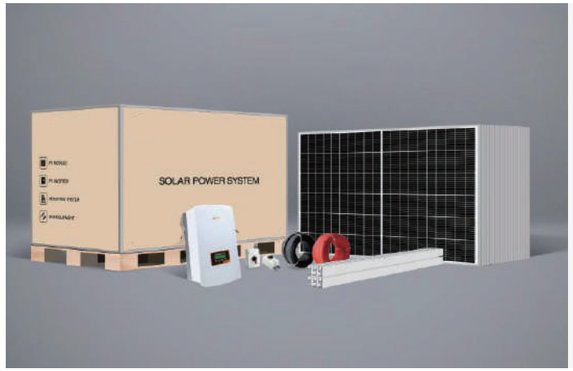


4 Higher Energy Yield Under High Irradiation Condition

Under high irradiation conditions, half-cell module, especially bifacial half-cell module, will have a higher energy yield compared with conventional module. Bifacial half-cell module will help to achieve the lowest LCOE in regions which is rich in sun radiation resources.

ALL IN ONE SOLAR SYSTEM

RESIDENTIAL SOLAR POWER SOLUTION



Residential On Grid

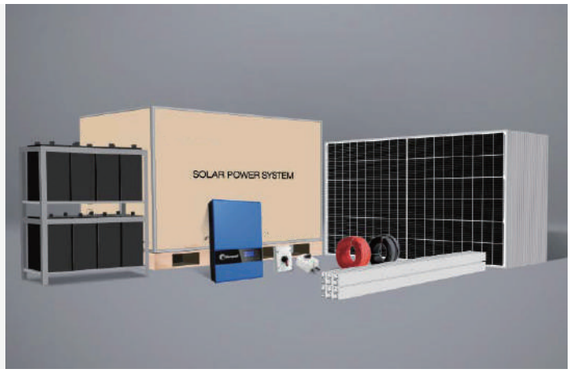
3kW / 5kW / 10kW

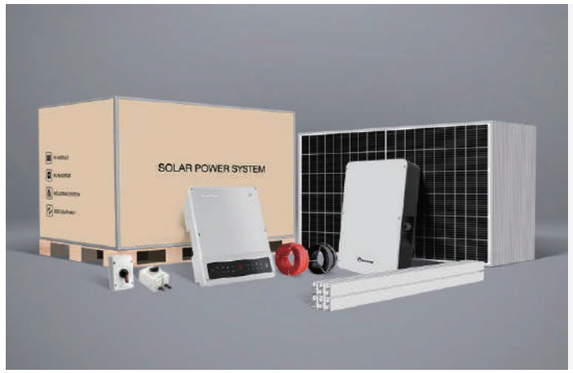
> Generate clean energy & reduce your electric bill
> Low maintenance and easy upkeep
> Hedge yourself against future utility increases

Residential Off Grid

1kW / 3kW / 5kW

> Become completely energy independent
> Eliminates the problems of grid blackouts
> Can be installed at any location





Residential Hybrid

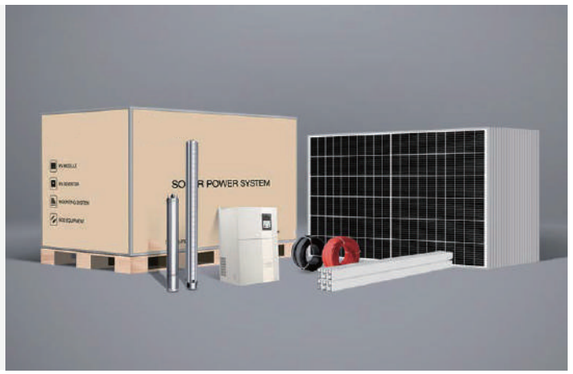
3kW / 5kW / 10kW

> Can operate in On Grid or Off Grid mode
> Sell power to the grid or store the excess for later use
> Protect yourself against utility outages

Solar Pumping System

1HP / 3HP / 5HP /10HP

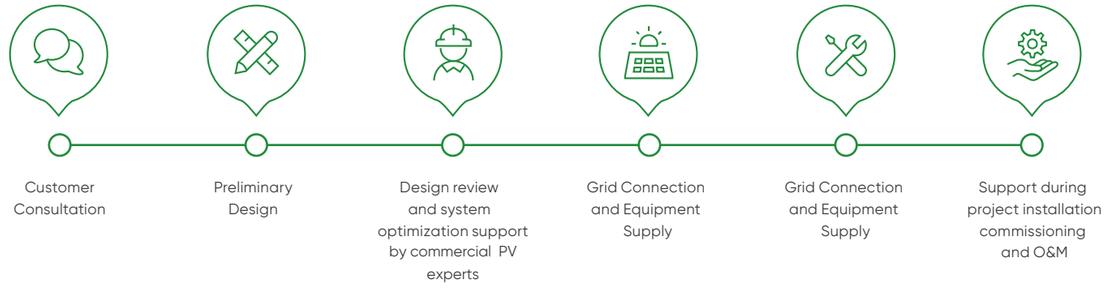
> Provide clean water with only solar energy
> Water can be stored in holding tanks for continues use
> Can be connected to the grid or with backup generator



COMMERCIAL SOLAR POWER SOLUTION

INDUSTRIAL & COMMERCIAL
SOLAR POWER SOLUTIONS

Providing industrial and commercial enterprises with one-stop solar solutions, including technical design, financial support, system installation, management and operation, as well as state subsidy procedures. Through offering our reliable and efficient business and industrial distributed solar systems, we help our customers to cut down utility bills and build up the modern clean energy system via emission reduction, energy conservation and efficiency enhancement.



Commercial Solar System Services and Procedures