

LONG

Webinar

02 November 2022

Join us for the official launch of the new next generation DG solution from LONGi



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LONGi



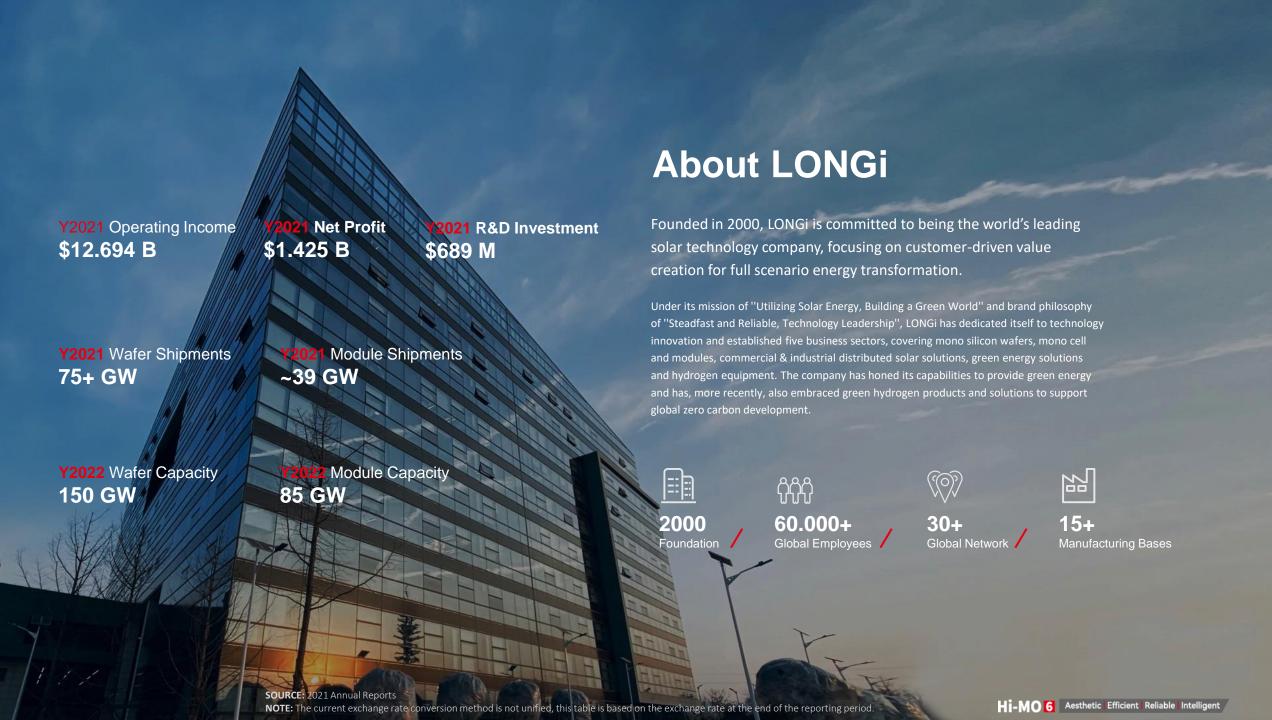
Moderated by
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Section Editor
Solar Media / PV Tech

LONGI

Aesthetic · Efficient · Reliable · Intelligent

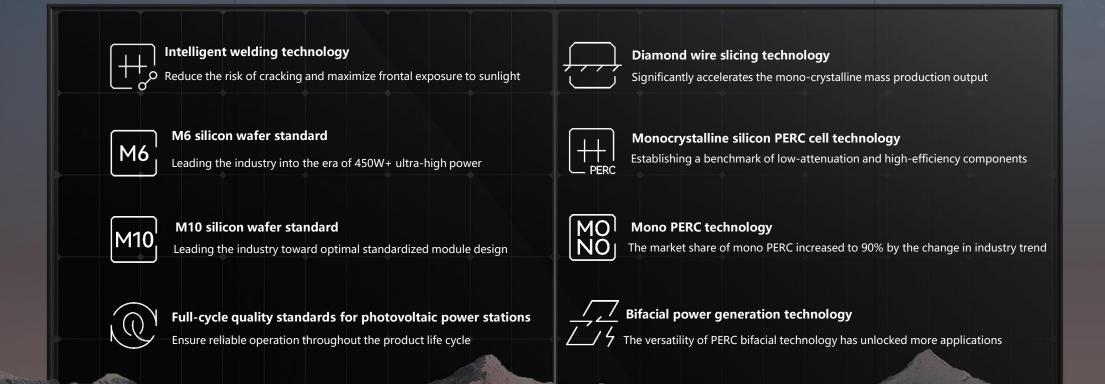
Hi-MO 6

Series Module Products



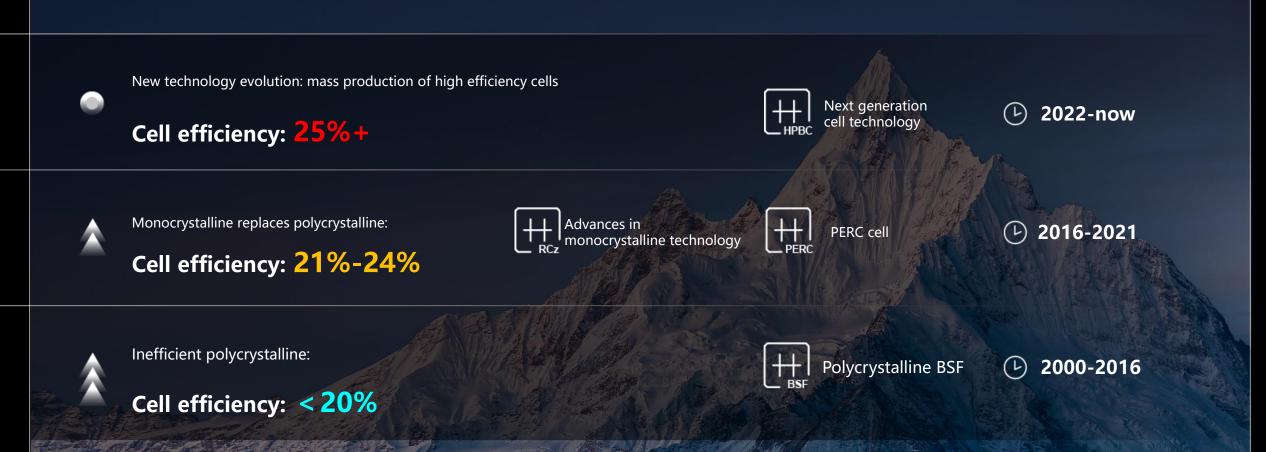
Robust and reliable, leading technology

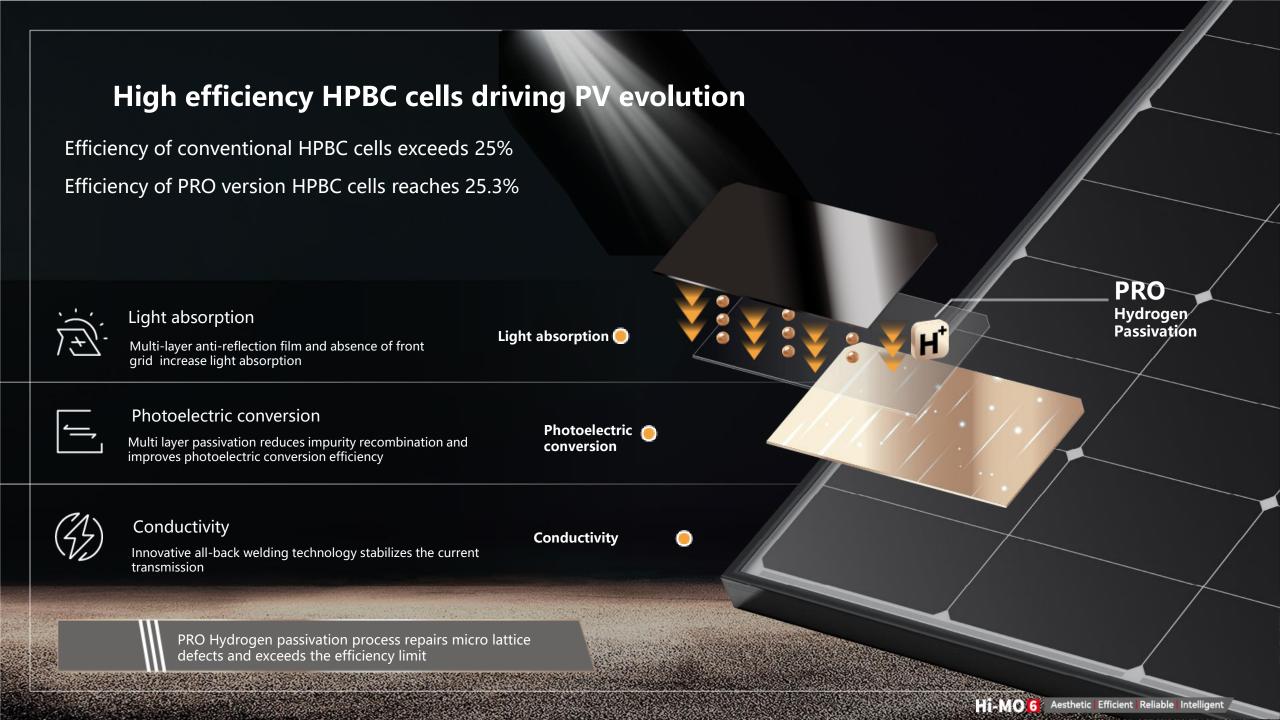
LONGi's technological breakthroughs will quickly be transformed into large-scale advanced production capacity and will be commercially offered to customers, leading to continuous reduction of photovoltaic costs.



Conversion efficiency gains are key drivers for PV industry development

Continuous large-scale mass production of high-efficiency cell helps achieve global zero carbon development





Based on M10 standard size

M10 mono wafer

Mainstream choice

High yield & high quality

HPBC Ultra high efficiency cell
 Aesthetic appearance
 Excellent performance

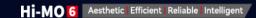
Full back interconnectHigh reliability and stability

Reasonable size and weight Suitable for single/double handling and installation

Working current <15A
 Match for inverter, 4m² cable
 Reasonable operating temperature
 ensures power generation

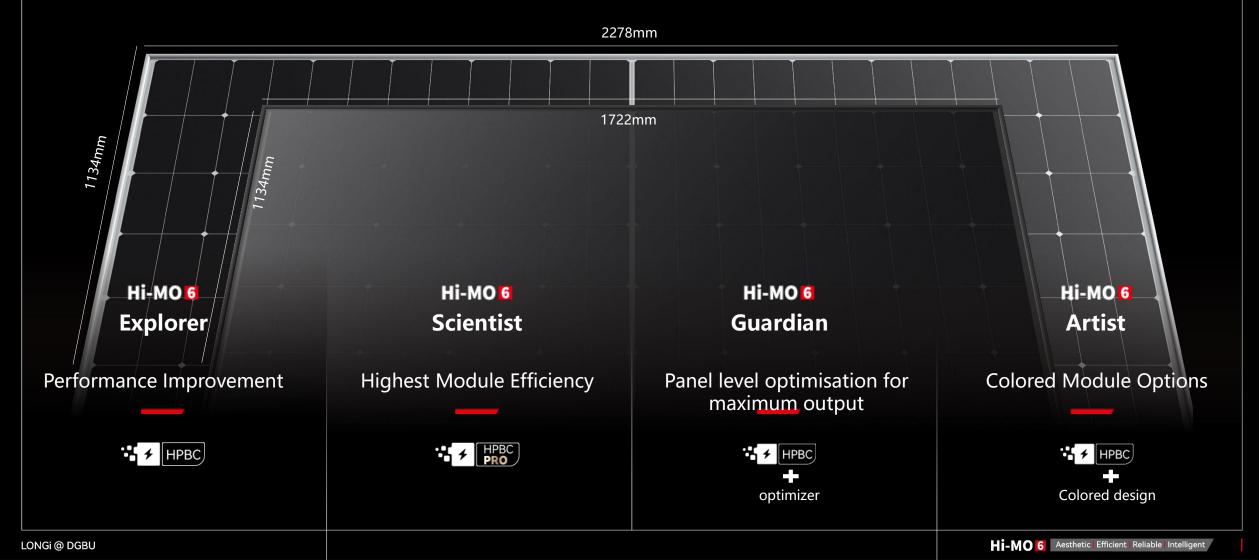
Optimum width for standard packaging, reducing logistics costs

Width: 1134mm



Hi-MO 6 Product Family

Four product series, based on the 182mm standard



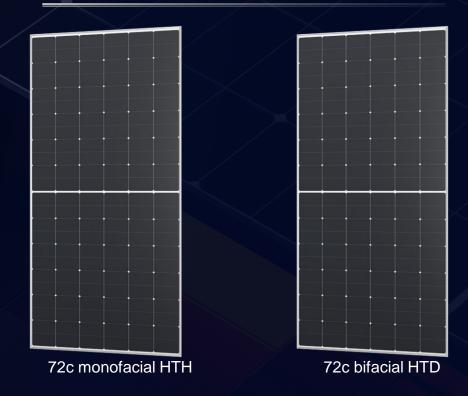
Product Series

2 formats, 4 products

54c all black HTB

For utility project market





For DG market

Typical parameters

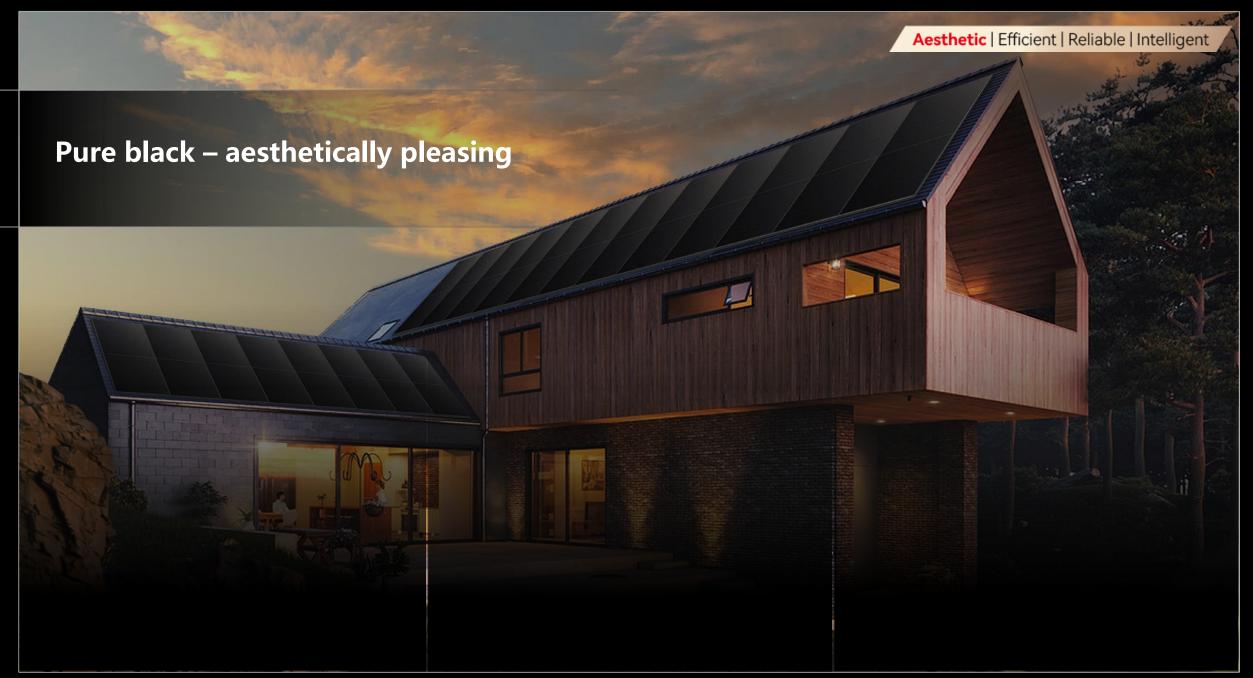
25% cell efficiency — about 22% module efficiency

	54c all back LR5-54HTB	54c monofacial LR5-54HTH	72c monofacial LR5-72HTH	72c bifacial LR5-72HTD	
Power	410~440W	415~450W	560~600W	550~580W	
Efficiency	21.0/22.5%	21.3/23.0%	21.7/23.2%	21.3/22.5%	
Main power	420/430W	425/430W	570/590W	565/575W	
Size	1722×1134×30mm		2278×1134×35mm		
Weight	20.8kg		27.5kg	32.6kg	
Packaging (pcs per 40'HC)		936	620		
Degradation Warranty	1st year o	legradation below 1.5% linear	annual degradation after year	1 is 0.4%	
Temperature coefficient of Pmax		0.299	%/°C		

One aesthetic, dual applications







Enhanced performance over PERC

72 cells monofacial comparison

	PERC Module	HiMO6 LONGi	Remarks
Power	550W	575W	+4,5% Pmax in the same area
Temperature Coefficiente Pmax	-0.34%/°C	-0.29%/°C	Better performance in hot climates
1st Year Degr.	<2%	<1.5%	
Yearly Degr.	<0.55%	<0.40%	Improved stability
Power Output Warranty (25Y)	84.8%	88.9%	

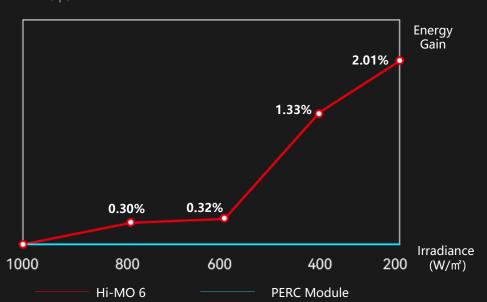
Comprehensive improvement of energy generation Module efficiency Light Low irradiation absorption Performance Long term power Temperature coefficient generation LONGi Hi-MO 6 **PERC Module**

Greater power generation under low irradiation conditions – more power at the start and end of the day

Longer power generation time

Better low irradiation performance

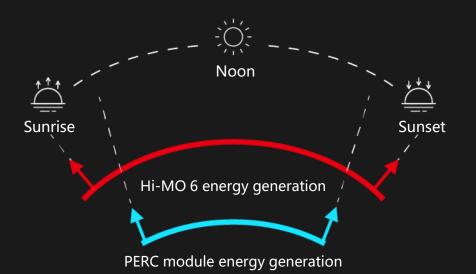




HPBC capabilities to produce energy under low irradiation are up to +2.01% better compared to standard product

*Gain=HPBC normalization PR/PERC normalization PR-1 *Data from TUV SUD

Longer power generation time



Higher module voltage ensures that the working voltage of the inverter can be reached faster in the morning and at night, effectively extending the power generation time

Percentage performance increase over PERC

Energy generation simulation considering 16 modules M10 cell size									
	Capacity Installed in the same area (kWp)	Annual Performance (kWh/kWp/Year)	1st year simulated energy generation (MWh/year)	Cumulative Degradation (25 years)	25th year simulated energy generation (MWh/25Y)				
		STOCKHOLI	A CWEDEN						
STOCKHOLM, SWEDEN									
PERC 550W	8,8	1092	9,6	9,41%	219,6				
HiMO6 575W	9,2	1113	10,2	6,72%	240,0				
Gain	+4,5%	+2%	+6,6%	2,7%	+9,3%				
MADRID, SPAIN									
PERC 550W	8,8	1651	14,5	9,41%	332,0				
HiMO6 575W	9,2	1691	15,6	6,72%	364,5				
Gain	+4,5%	+2,4%	+7,1%	2,7%	+9,8%				
Tech Improvements	Efficiency	IAM + Low Irradiation + Temp Coef	Extra Energy 1st year	1st year deg + yearly degradation	Extra Energy 25Y				

Hi-MO 6 Aesthetic Efficient Reliable Intelligent

Lower degradation – extended warranty over PERC

Lower power degradation ensure stable power generation over 30 years

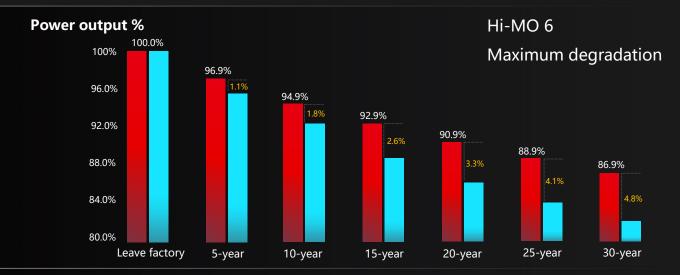
Lower degradation

Max. first year degradation **1.5%**

Max. annual degradation **0.4%**

LONGi Hi-MO 6

PERC Module



Protecting your investment with longer warranties



Single glass module
25-years warranty
25th-year 88.9%
power output warranty



Dual glass module
30-years warranty
30th-year 86.9%
power output warranty

*Hi-MO 6 series have extended warranty service

Innovative welding technology protects HPBC cells

Back contact welding structure Lower cell stress Cell Ribbon Stress Cell edge stress 50Mpa

Traditional Z-shaped welding structure

Cell edge stress 26Mpa

Hi-MO 6 uses back contact one-line welding structure

Reliability Testing

Excellent performance and ultra-low degradation under severe test conditions

Hail impact simulation

Hail weather simulation Diameter:25,35,45mm Falling at 84-134km/h

Thermal cycle test

High and low temperature environment simulation 85°C to - 45°C 200 runs

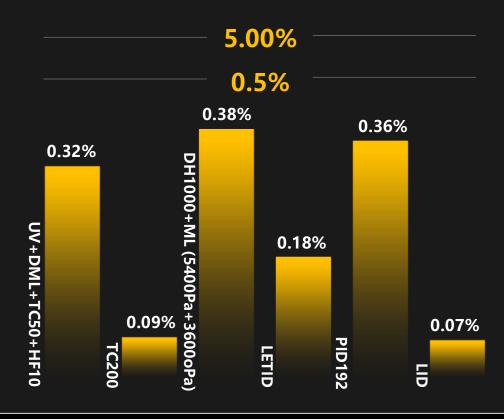
Salt spray test

Coastal environment simulation 5% saturation 1000 hours of operation at 35°C

Dynamic simulation

Storm simulation 1000 cycles The maximum pressure is ±1000pa

IEC standard: Degradation less than 5% under extreme test conditions



Intelligent power generation | Safe electricity

Module level optimizer enables module intelligence



Intelligent monitoring Module monitoring and real-time data analysis



Rapid shutdown

Decreases output voltage to below 1V



Real-time optimization

Increases power generation by 5%-30%



Capability increase

One string for all modules in the system



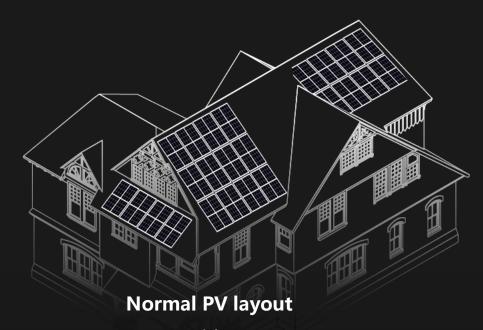
Increased capacity - flexible design

Greater versatility in module orientation for all strings

Maximizes roof utilization

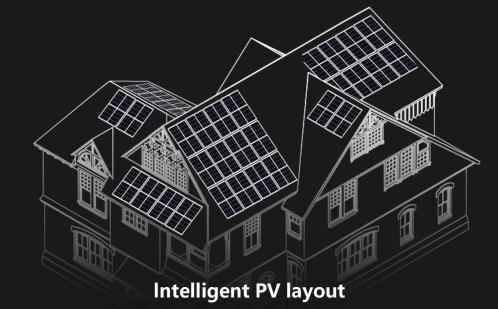
Increased flexibility

Reduces design limitations



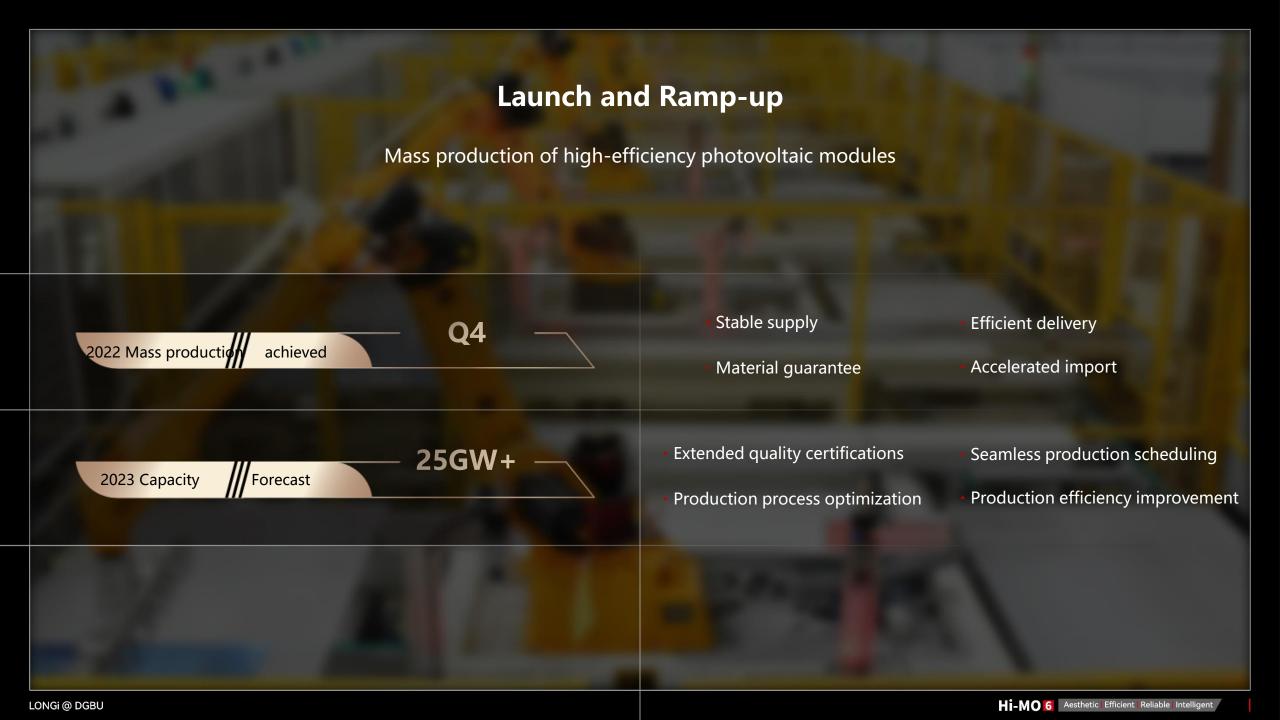
Inverter with 2 MPPTs

Each MPPT can only support one module orientation



Each module generates electricity independently

Each string can support modules of different orientation



Product life-cycle management - ultimate service experience

Worldwide technical support coverage, logistics and warehousing

Service Commitment

Solid service commitment

Response within 1 day | Solution within 2 days | Return/Exchange within 1 week



Lifetime service support

Pre-sales service (New product introduction | Technical consulting | Sample support)

In-sales service (Order execution guarantee | installation training | Special management | Grid-connected acceptance)

After-sales service (After-sales processing | Operation & Maintenance support | Power station inspection)



Value-added services including system technical training and O&M consultancy

Module performance test > PV plant design, installation & maintenance > Power generation and



Thank you