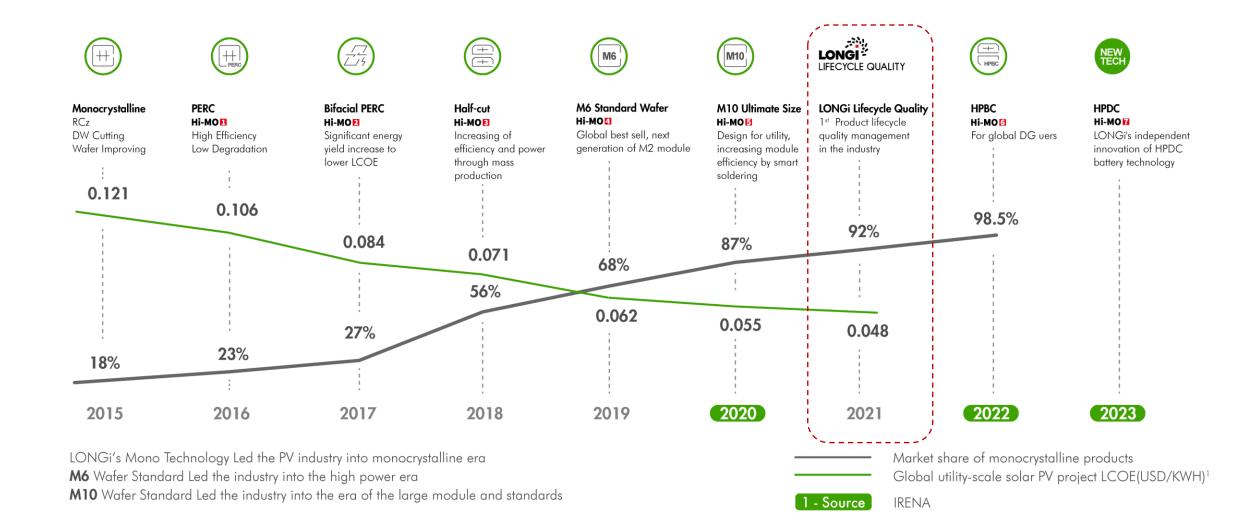


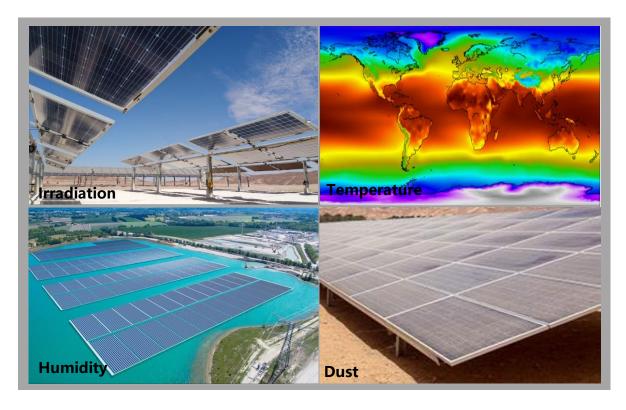
WE COMMIT OURSELVES TO GLOBAL CLEAN ENERGY DEVELOPMENT AND CONTINUE TO LEAD



OUR INNOVATION WILL BE RAPIDLY TRANSFORMED TO THE ACCELERATOR OF THE INDUSTRY EVOLUTION

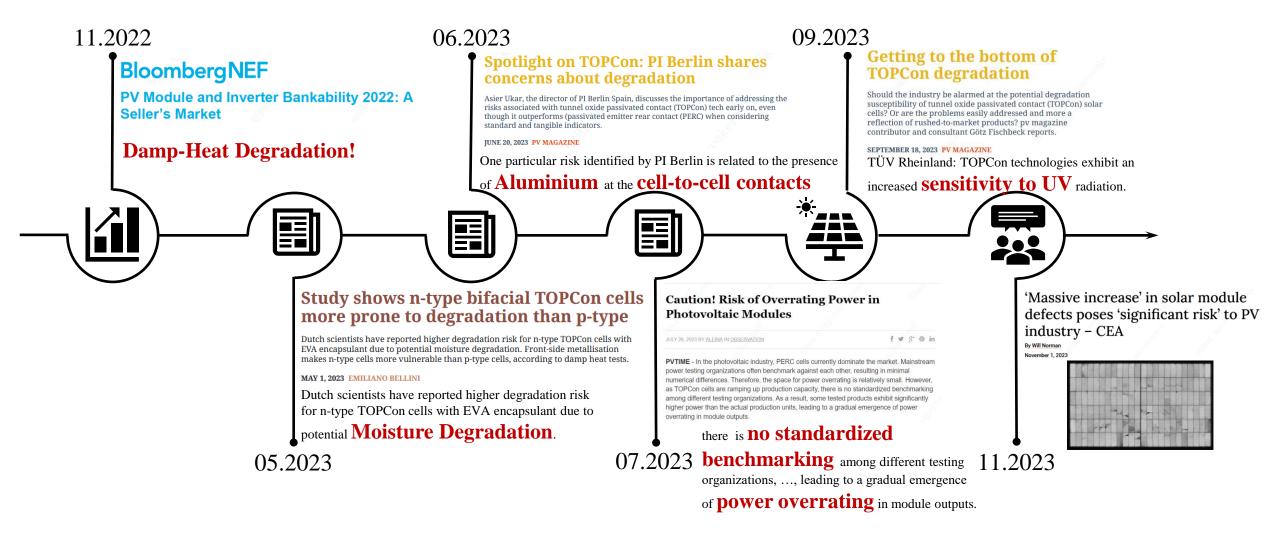


Modules are Subjected To Various Environmental Impacts During Lifetime



Environmental Factors	Effects on PV Module
Solar Exposure	light-induced degradation of cell efficiency
Temperature Variation	the failure of welded circuit connections, exacerbate cracks in solar cells, junction box and module connection failures
Hot Spot	localized overheating in modules, causing hot spot failure
Electrical Potential	failure of solar cells due to the system voltage
Shading	overheat of diodes, resulting in excessive voltage drop and high leakage current
UV Aging	encapsulation failure by yellowing of EVA, embrittlement of sealing compound, and aging of back sheets
Hot& Humid/ Damp & Freezing	glass fogging, encapsulation failure, corrosion, and the failure of junction boxes and module connections
Dynamic Mechanical Load	cracks in solar cells

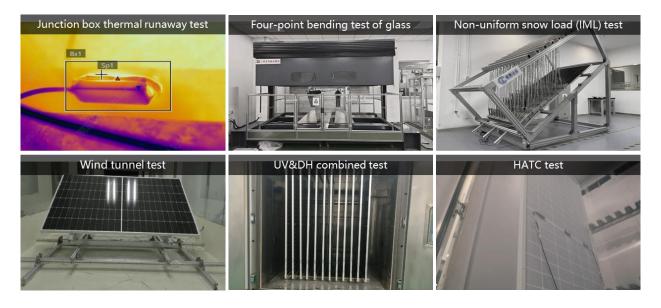
Here is An Example for TOPCon Technology: Many Potential Risks of TOPCon Have Been Exposed In the Past Year



LONGI LIFECYCLE QUALITY Guarantees Long Term Reliability of Products

LONGI LIFECYCLE QUALITY ensures high reliability throughout the entire life cycle, covering design, materials, manufacturing, demonstration, and value-added services. It includes Threther tests and comprehensive aging tests for materials and products to ensure their reliability in extreme weather conditions. Longi products have demonstrated clear performance advantages compared to others in third-party testing and power generation demonstrations.





Award-Winning Reputation



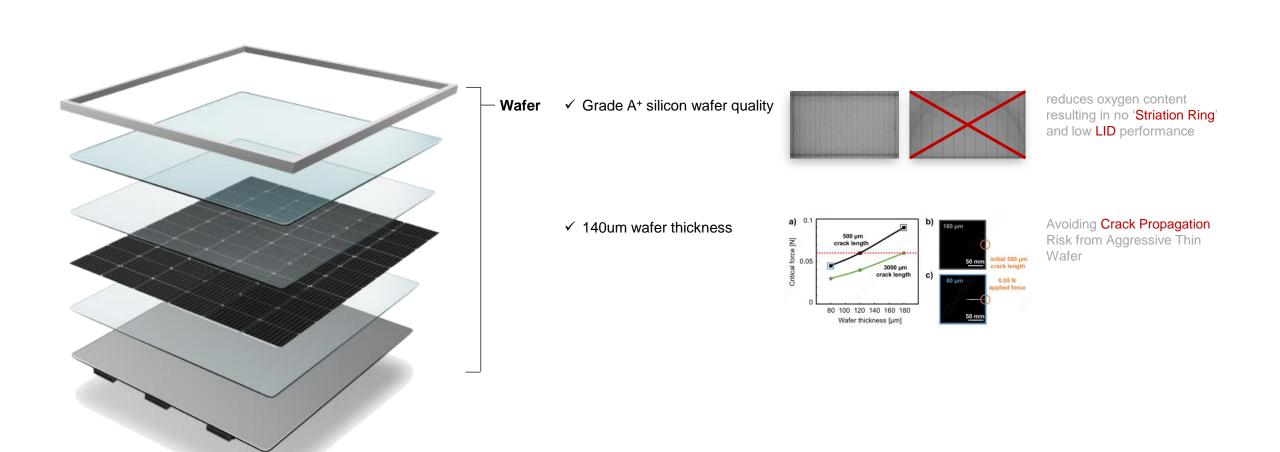


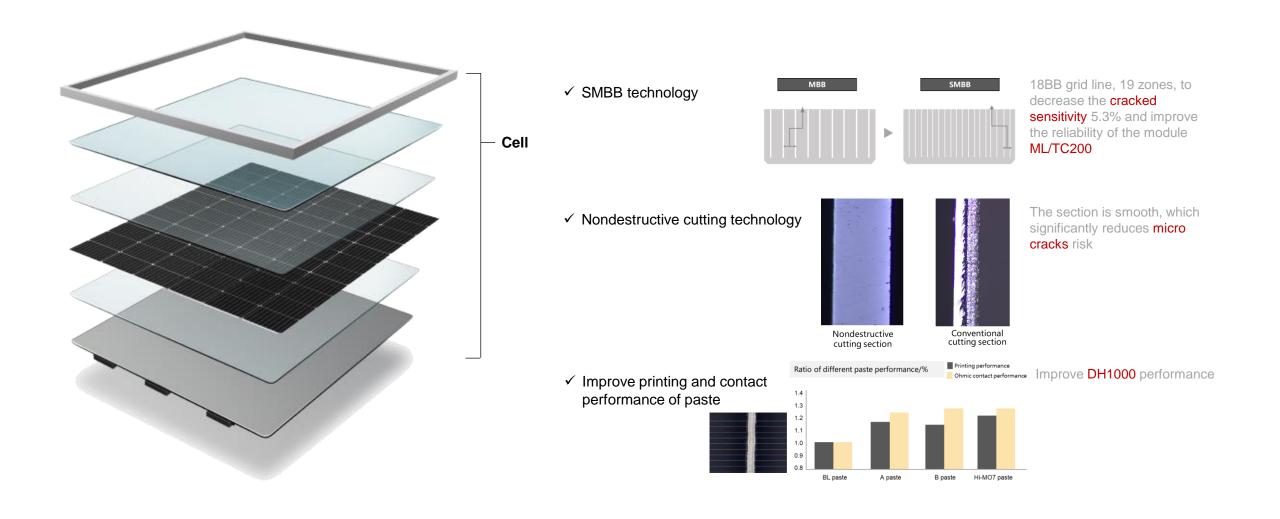


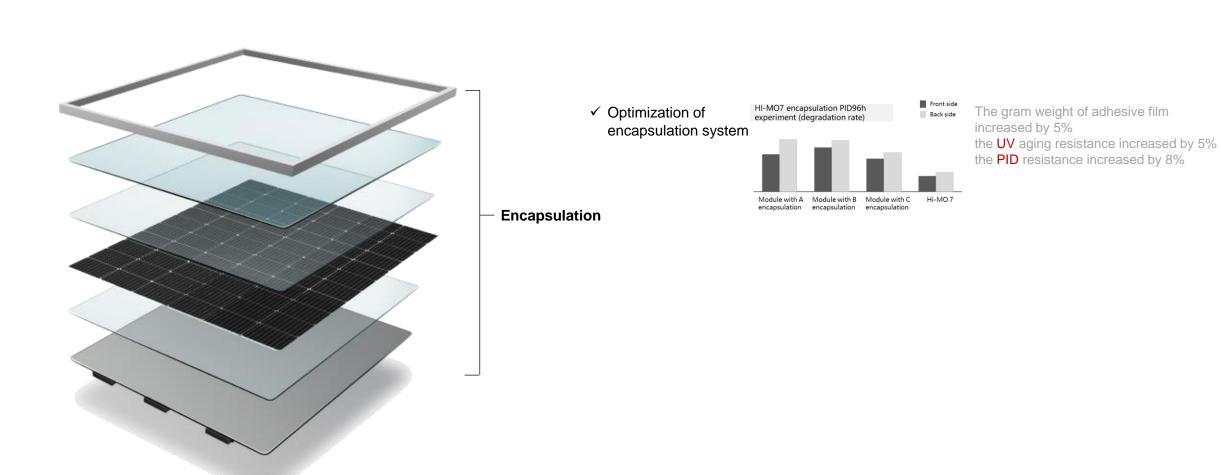


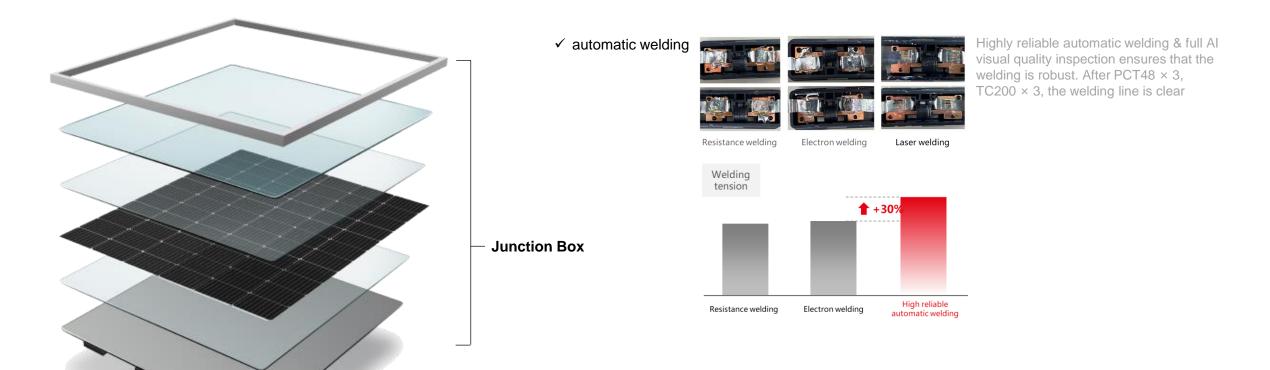


Standards	61215	63209-1	PVEL	RETC	
Test	TC200	TC200*3	TC200*3	TC200*4	
Protocol	DH1000	DH2000	DH2000	DH2000	
	UV15	DH200	DH1000	UV45	
	+TC50	+(UV60+TC50+HF10)*3	+(UV65+TC50+HF10)*3	+UV45	
	+HF10	+UV6.5	+UV6.5		
	SML	SML	SML	SML	
	+TC50	+DML	+DML	+DML	
	+HF10	+TC50	+TC50	+TC50	
		+HF10	+HF10	+HF30	
	PID96	PID96*2	PID96*2	PID96*3	
	/	/	LeTID	LeTID	
			162*3 (75°C)	162*2+500+162*2 (75°C)	
Comments	Standard	Guarantees Long Term Reliability			

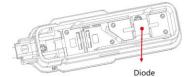




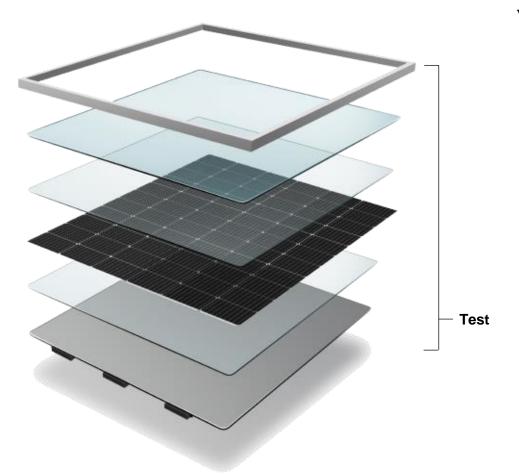




✓ Safe Margin for Diode



Module Type	Wafer Size	Isc(A)	(1+30%*80%)*1.25*lsc	Junction box current(A)	Safety margin
LONGi LR5-72HGD	182*183.75	14.30	22.17	25	12.8%
LONGi LR7-72HGD	182*191.6	14.70	22.79	25	9.7%
A Company	182*210	15.90	24.65	25	1.4%
B Company	210*210	18.18	28.18	30	6.5%

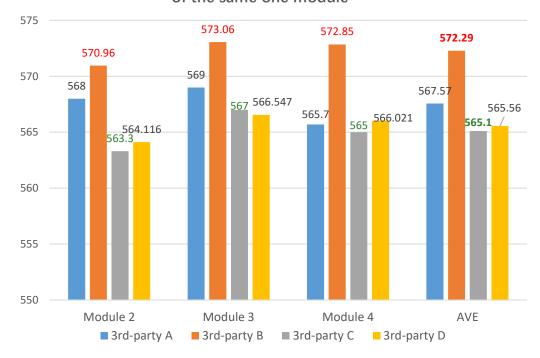


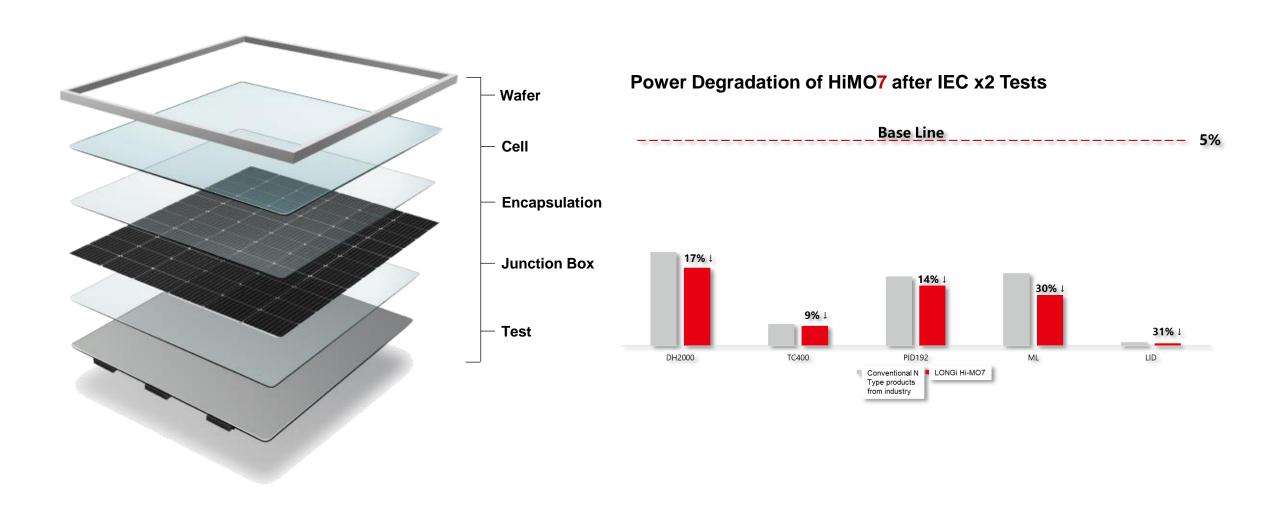
✓ Strict Golden Modules

No.	Module Type	Serial Number	3 rd -party A	3 rd -party B	3 rd -party C	3 rd -party D
1	LR5-72N-type Bifacial-555M	LRRI04*******0028	555.9	562.76	553.7	557.586
2	LR5-72N-type Bifacial-565M	LRRI04*******0012	568	570.96	563.3	564.116
3	LR5-72N-type Bifacial-565M	LRRI04*******0039	569	573.06	567	566.547
4	LR5-72N-type Bifacial-565M	LRRI04*******0037	565.7	572.85	565	566.021
AVE Difference			2.15	7.41	-0.25	1.09

LONGi chooses the strictest 3rd-party C golden module for Avoiding the Risk of 'Overrate'

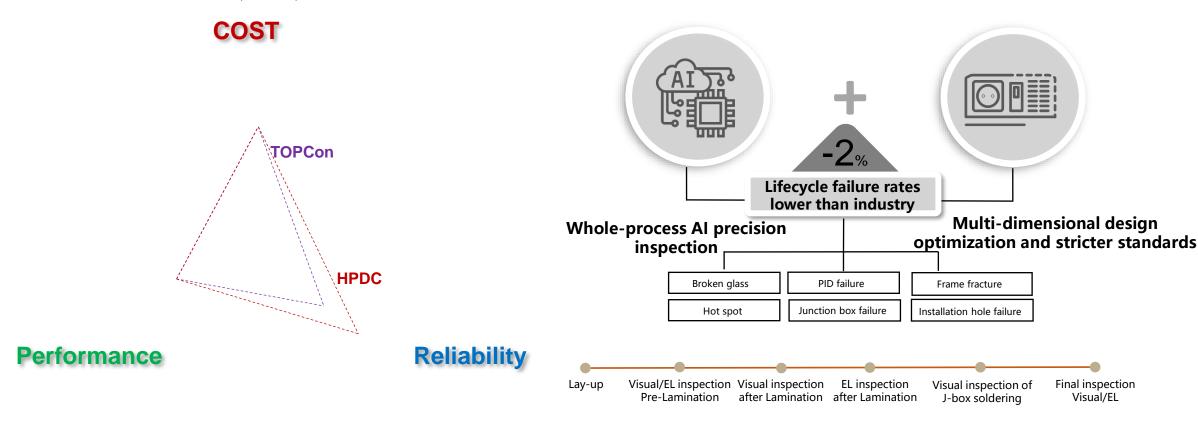
The power results given by 4 3rd-parties of the same one module





LONGi Lifecycle Quality Improve the Resistance of Product from Environmental Attack

Nearly 200 pieces of high-quality data are automatically analyzed and evaluated intelligently, the detection efficiency has increased by 25%. The implementation of this measure effectively reduces the industry's NG missed detection rate by approximately 4%, thereby ensuring lower failure rates for Hi-MO7 at PV power plants.



Special Case in Offshore Environment

Areas	<50m Range of the Coastline	Intertidal Zone	Nearshore	Deep-Sea
Mounting structure	Pile-mounted	Pile-mounted	Pile-mounted/Floating	Floating
Area for setting modules	Atmosphere .	Atmosphere	Atmosphere /Sea Spray zone	Sea Spray zone
_ Humidity	High humidity	High humidity	High humidity	High humidity
Salt spray Level	High	High	High	High
Corrosion Level	Very high (C5)	Very high (C5)	Extreme High (CX)	Extreme High (CX)
Impact of extreme weather	Small	Large	Large	Large
Probability of being struck by waves	, N/A	N/A	N/A/Large	Large
Probability of being submerged	N/A	N/A	N/A/Large	Large
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			West of the same	Fill Bill

Longi Offshore PV Modules Solution

