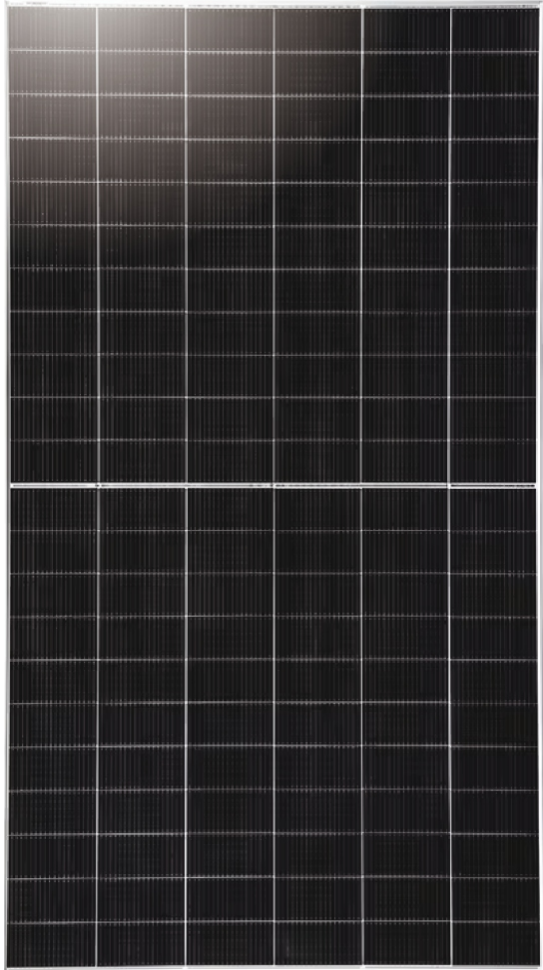


Under Shanshan Group, Top 500 Enterprise in China, Ningbo Ulica Solar Co., Ltd. produces our own high quality solar cells and modules starting from August 2005. Our product range covers all from off-grid panels to on-grid panels, both mono-crystalline and poly-crystalline, suitable for all types of installation from residential to commercial projects

**MONO HALF-CELL TOPCON**



**12% more power than conventional modules**



**Lower power degradation  
Lower internal current  
Lower hot spot temperature**



**Cell crack risk limited in small region,  
enhance the module reliability**



**Outstanding mechanical load resistance**  
Snow load 5400Pa (Frontside), and Wind load 3800Pa (Backside)



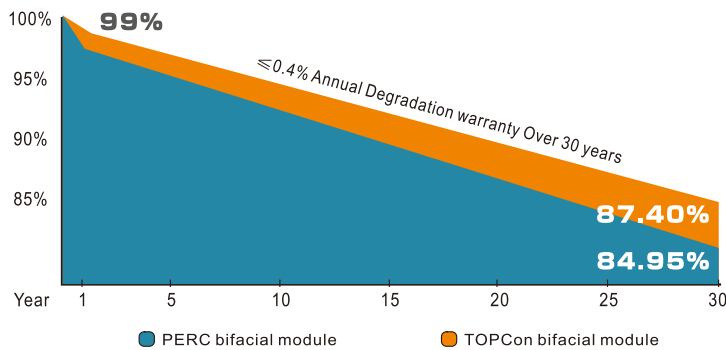
**High performance under low light conditions**  
Cloudy days, Rainy days



**Double EL test before and after lamination**  
Highly control the micro cracks and invisible defects.



**World famous insurance**  
CHUBB(USA), Solar Insurance&Finance(Netherlands)



15-year product warranty

30-year linear power output

Certificate Holder Name : Ningbo Ulica Solar Co.,Ltd



## ELECTRICAL PERFORMANCE

Module Type			UL-700M-132DGN		
			STC	BNPI	BSI
Power Output	P <sub>max</sub>	W	700	770	
Power Tolerance	ΔP <sub>max</sub>	W	±3%	±3%	
Module Efficiency	η <sub>m</sub>	%	22.53	22.53	
Voltage at P <sub>max</sub>	V <sub>m</sub>	V	40.54	40.54	
Current at P <sub>max</sub>	I <sub>m</sub>	A	17.27	19.00	
Open-Circuit Voltage	V <sub>oc</sub>	V	48.62 ± 3%	48.62 ± 3%	
Short-Circuit Current	I <sub>sc</sub>	A	18.32 ± 3%	20.37 ± 3%	22.44

STC : AM=1.5,E=1000W/m<sup>2</sup>,TC=25°C

BNPI : E=1000W/m<sup>2</sup>,rear=135W/m<sup>2</sup>

BSI : E=1000W/m<sup>2</sup>,rear=300W/m<sup>2</sup>

Remark : Sorting tolerance as 0~+5W in our factory.

Bifaciality coefficient of P<sub>max</sub> 85±5%

Bifaciality coefficient of V<sub>oc</sub> 99±5%

Bifaciality coefficient of I<sub>sc</sub> 86±5%

## THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	43±2
Temperature Coefficient of P <sub>max</sub>	γ	%/°C	-0.290
Temperature Coefficient of V <sub>oc</sub>	β <sub>voc</sub>	%/°C	-0.250
Temperature Coefficient of I <sub>sc</sub>	α <sub>isc</sub>	%/°C	0.046

## OPERATING CONDITIONS

Max. System Voltage	1500V
Max. Series Fuse Rating	35A
Operating Temperature Range	-40°C~85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Safety Class	II
Fire class rating	Class C

## CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	Dual glass,2,0+2,0mm low-iron tempered glass
Cell(quantity/material/type/dimension)	132/N Type monocrystalline/210X105mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver
Junction Box(protection degree)	IP68
Cable(length/cross-sectional area)	400mm/4mm <sup>2</sup>
Plug Connector	DC1500,PV-ZH202B/PV-JM608/PV-CY20L, Made in China

## GENERAL CHARACTERISTICS

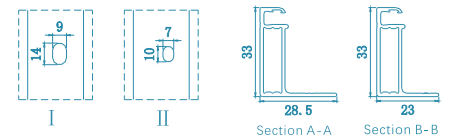
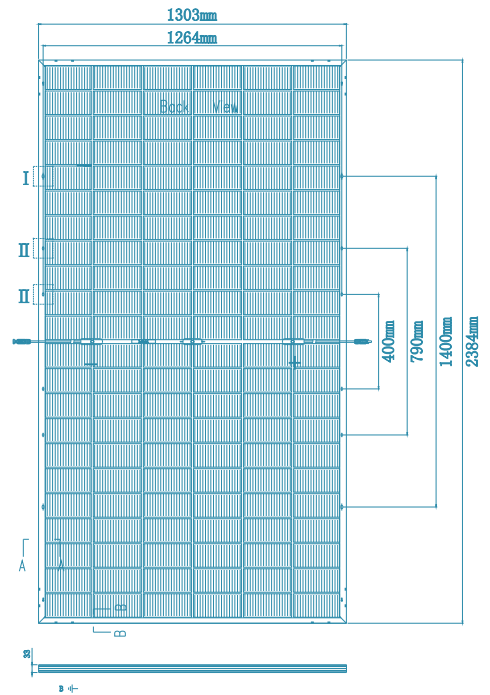
Dimension(L/W/H)	2384x1303x33mm
Weight	38.3kg

## PACKING CONFIGURATION

Pieces per Pallet	33 pcs
Pieces per Container	594 pcs

## INTERNATIONAL CERTIFICATES

- TÜV SÜD, CE, MCS, CQC, IMERTRO
- ISO9001:2015
- ISO14001:2015
- ISO45001:2018



Length: ± 2mm  
 Width: ± 2mm  
 Height: ± 1mm  
 Row Pitch: ± 2mm

Please read the installation manual in its entirety before handing, installing, and operating Ulica Solar modules.

Due to continuous innovation, research and improvement, the specification is subject to change without prior notice.