

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)



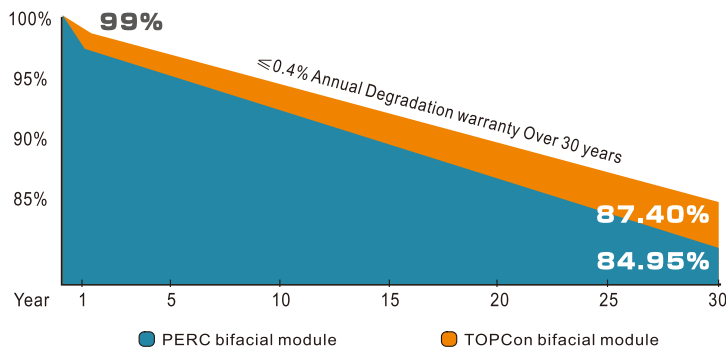
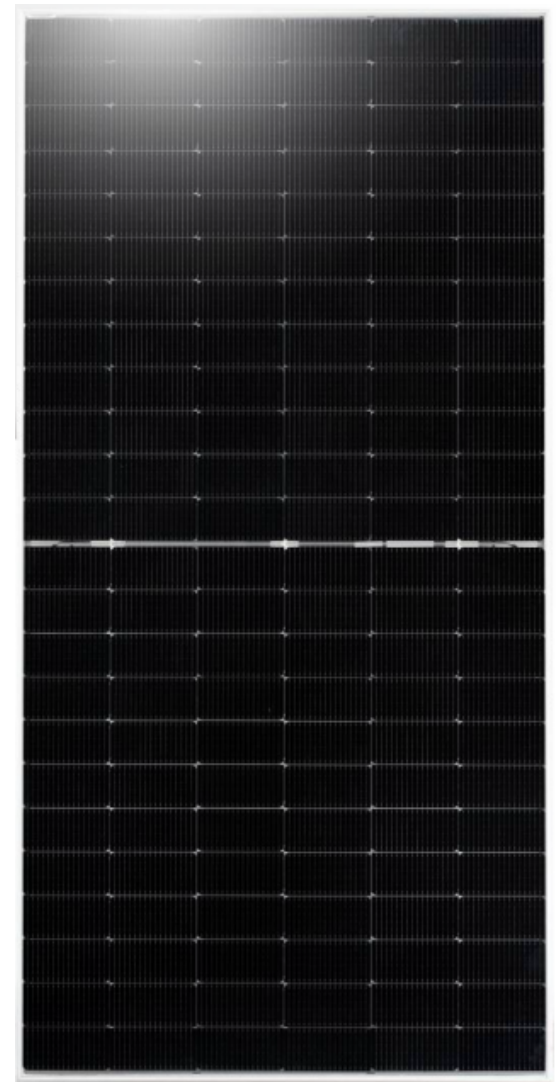
High performance under low light conditions
 Cloudy days, Rainy days



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-580M-144ADGN		
			STC	BNPI	BSI
Power Output	P _{max}	W	580	640	
Power Tolerance	ΔP _{max}	W	±3%	±3%	
Module Efficiency	η _m	%	22.45	24.77	
Voltage at P _{max}	V _m	V	44.02	44.02	
Current at P _{max}	I _m	A	13.18	14.54	
Open-Circuit Voltage	V _{oc}	V	52.52 ± 3%	52.52 ± 3%	
Short-Circuit Current	I _{sc}	A	13.95 ± 3%	15.35 ± 3%	17.09

STC : AM=1.5,E=1000W/m²,TC=25°C

BNPI : E=1000W/m²,rear=135W/m²

BSIP : E=1000W/m²,rear=300W/m²

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

Bifaciality coefficient of P_{max} 85±5%

Bifaciality coefficient of V_{oc} 99±5%

Bifaciality coefficient of I_{sc} 86±5%

THERMAL CHARACTERISTICS

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

OPERATING CONDITIONS

Max. System Voltage	1500V
Max. Series Fuse Rating	30A
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)	144/N Type monocrystalline/182X91mm
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 ²
Plug Connector	DC1500,PV-ZH202B/PV-JM608/PV-CY20L, Made in China

GENERAL CHARACTERISTICS

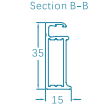
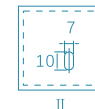
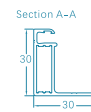
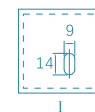
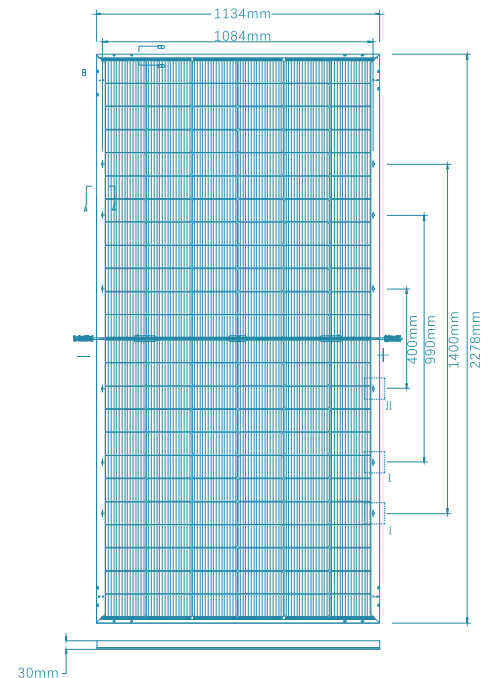
Dimension(L/W/H)	2278x1134x30mm
Weight	31.2kg

PACKING CONFIGURATION

Pieces per Box	36pcs
Pieces per Pallet	72pcs
Pieces per Container	720pcs

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 this 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.