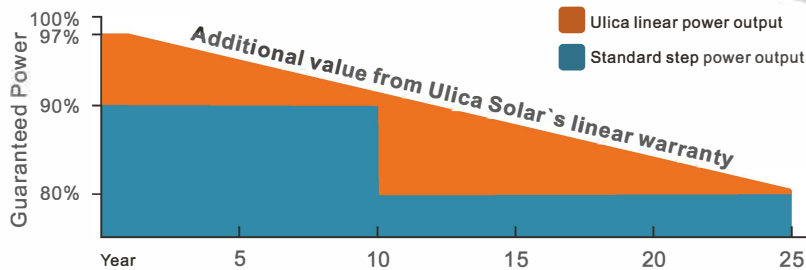


# MONO HALF-CUT MODULE

## UL-390 | 395 | 400M-144

### 390W~400W 1500V



**Global Tier 1 bankable brand**



**Mono PERC Half-cell Module**  
Reduced resistance between cells  
Less micro cracks, higher output power



**Outstanding mechanical load resistance**  
3800 Pa wind load, 5400 Pa snow load



**High performance under low light**  
Works at cloudy, rainy days



**Anti-PID(potential induced degradation)**  
Passed anti-PID test under 85% damp heat,  
85% relative humidity for 96 hours



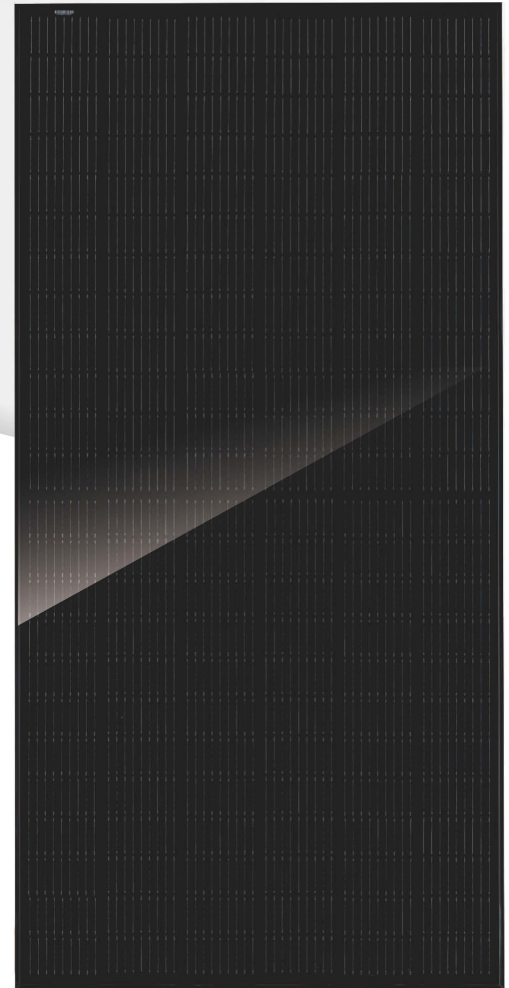
**Great Durability against extreme conditions**  
Passed salt mist corrosion test, ammonia corrosion test,  
dust & sand test, fire test, all certified by TUV



**Double electroluminescence (EL) tests**  
Carefully inspected before and after lamination  
to guarantee fault-free modules



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



**12 year product warranty**

**25 year linear power warranty**



**About Ulica Solar:** As member of Shanshan Group (stock code: 600884) which is TOP500 Enterprise in China, Ulica Solar is the leading manufacturer of solar cells and solar panels in China since 2005, and the global Tier 1 brand as announced by Bloomberg NEF of Q1 2020, with the annual capacity of 800MW, and own investment projects of 300MW.

## ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type			UL-390M-144	UL-395M-144	UL-400M-144
Power Output	P <sub>max</sub>	W	390	395	400
Power Tolerance	ΔP <sub>max</sub>	W		0/+5W	
Module Efficiency	η <sub>m</sub>	%	19.19	19.44	19.68
Voltage at P <sub>max</sub>	V <sub>m</sub>	V	40.1	40.2	40.4
Current at P <sub>max</sub>	I <sub>m</sub>	A	9.73	9.83	9.90
Open-Circuit Voltage	V <sub>oc</sub>	V	40.1	40.2	40.4
Short-Circuit Current	I <sub>sc</sub>	A	10.21	10.31	10.40

STC:1000W/m<sup>2</sup> irradiance,25°C module temperature,AM1.5

## THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P <sub>max</sub>	γ	%/°C	-0.360
Temperature Coefficient of V <sub>oc</sub>	β <sub>voc</sub>	%/°C	-0.330
Temperature Coefficient of I <sub>sc</sub>	α <sub>isc</sub>	%/°C	+0.049

## OPERATING CONDITIONS

Max.System Voltage	1500V
Max.Series Fuse Rating	20A
Operating Temperature Range	-40°C~85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Application Class	A

## CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	144/monocrystalline/ 158.75 x79.375mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP68
Cable(length/cross-sectional area)	400mm(or Customized Length)/4mm <sup>2</sup>
Plug Connector	MC4 compatible

## GENERAL CHARACTERISTICS

Dimension(L/W/H)	2024/1004/40mm
Weight	22.5kg

## PACKING CONFIGURATION

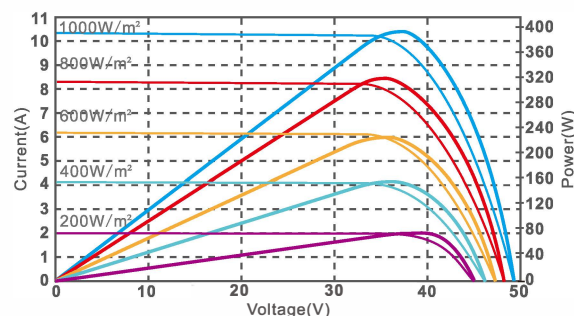
Pallet Size(L/W/H)	2065/1120/2490mm
Pallet Weight	1360kg
Pieces per Pallet	52pcs+4pcs
Pieces per Container	616pcs

## INTERNATIONAL CERTIFICATES

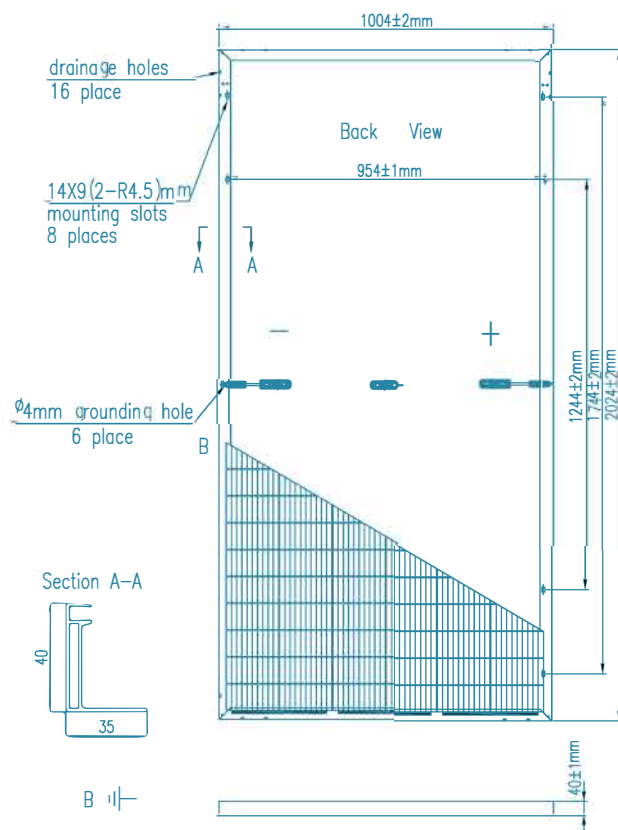
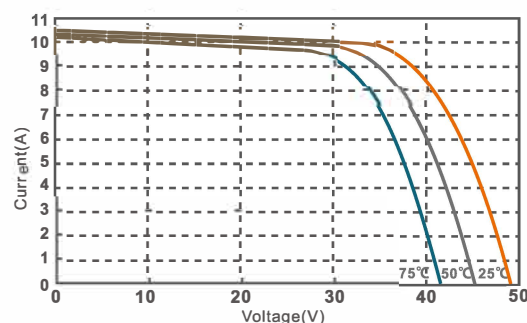
- IEC 61215, IEC 61730
- ISO 9001: 2015(Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- OHSAS 18001: 2015 (Occupational health and safety)

## I-V CURVE

I-V characteristics at different irradiances



I-V characteristics at different temperature



Please read the instruction entirely before handling, installing and operating Ulica Solar modules.

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