

Ulica Solar is a subsidiary of Shanshan Co.,Ltd(SH.600884), Top 500 Enterprise in China. Ulica designs and manufactures high-quality solar cells and panels starting from August 2005. Its product line covers both mono and poly crystalline models, suitable for full range of projects from off-grid to on-grid, from residential to commercial.

**MONO HALF-CELL PERC**



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



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



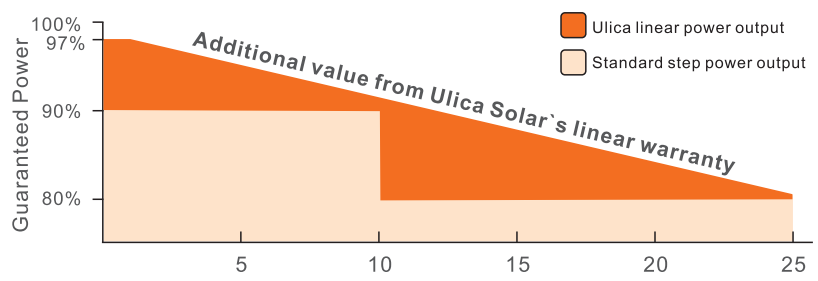
**High performance under low light conditions**  
Cloudy days, Rainy days



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



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



12-year Limited Product Warranty  
25-year Limited Performance Warranty

Certificate Holder Name : Ningbo Ulica Solar Science & Technology Co.,Ltd



# MONO 390W/395W

## ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type			UL-390M-144	UL-395M-144
Power Output	P <sub>max</sub>	W	390	395
Power Tolerance	ΔP <sub>max</sub>	W	±3%	
Module Efficiency	η <sub>m</sub>	%	19.66	19.91
Voltage at P <sub>max</sub>	V <sub>m</sub>	V	40.0	40.2
Current at P <sub>max</sub>	I <sub>m</sub>	A	9.75	9.83
Open-Circuit Voltage	V <sub>oc</sub>	V	48.9 ±4%	49.1 ±4%
Short-Circuit Current	I <sub>sc</sub>	A	10.23 ±4%	10.31 ±4%

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

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

## THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P <sub>max</sub>	γ	%/°C	-0.390
Temperature Coefficient of V <sub>oc</sub>	β <sub>voc</sub>	%/°C	-0.290
Temperature Coefficient of I <sub>sc</sub>	α <sub>isc</sub>	%/°C	+0.049

## OPERATING CONDITIONS

Max. System Voltage	1000V
Max. Series Fuse Rating	20A
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)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	144/monocrystalline/156.75 x78.375mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver
Junction Box(protection degree)	IP67
Cable(length/cross-sectional area)	400mm/4mm <sup>2</sup>
Plug Connector	DC1500,PV-ZH202/PV-JM601A/PV-JM601, Made in China

## GENERAL CHARACTERISTICS

Dimension(L/W/H)	2000x992x40 mm
Weight	22.5kg

## PACKING CONFIGURATION

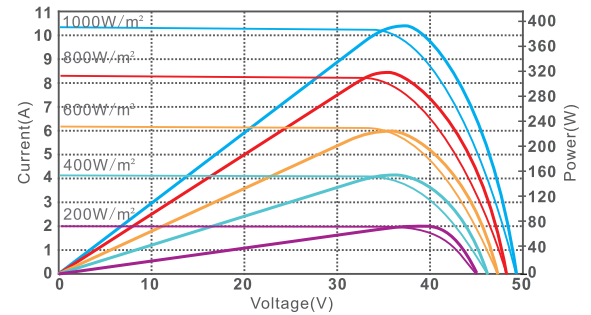
Pallet Size(L/W/H)	2040/1120/2460mm
Pallet Weight	1414kg
Pieces per Pallet	56pcs
Pieces per Container	616pcs

## INTERNATIONAL CERTIFICATES

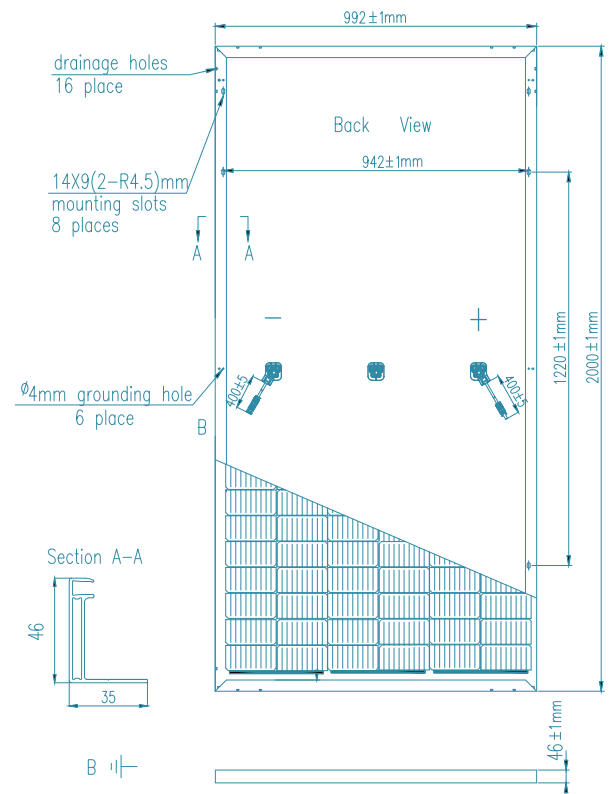
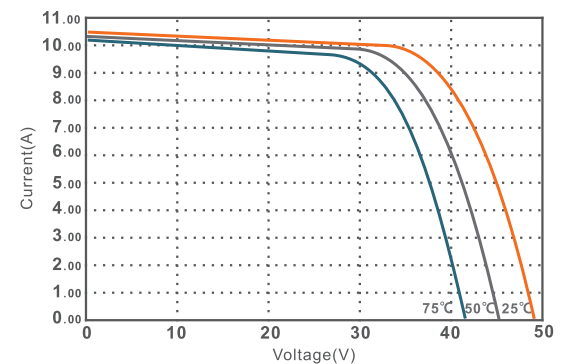
- TÜV SÜD, CE, JET, MCS, CQC, IMERTRO
- ISO9001:2015
- ISO14001:2015
- BS OHSAS 18001:2007

## I-V CURVE

I-V characteristics at different irradiances



I-V characteristics at different temperature



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.