UL-470M-108CHVN UL-475M-108CHVN



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





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)



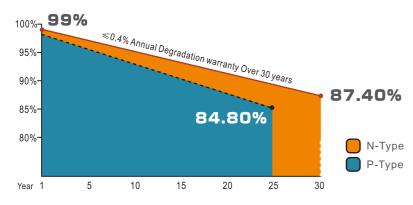
High performance under low light conditions Cloudy days, Rainy days

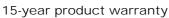


Double EL test before and after lamination Highly control the micro cracks and invisible defects.



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





30-year linear power output

Certificate Holder Name : Ningbo Ulica Solar Co., Ltd







Add: No.181-197 Shanshan Road, Wangchun Industrial District, Ningbo, China Tel: +86-574-28828978 Fax: +86-574-28828997 Email: ulicasales@ulsolar.com.cn Web: www.ulicasolar.com Manufacturer Country: China



MONO

470W/475W



BELECTRICAL PERFORMANCE

Pmax	14/		
	VV	470	475
Pmax	W	±3'	%
ηm	%	23.03	23.27
Vm	V	33.62	33.82
Im	A	13.98	14.04
Voc	V	40.18 ± 4%	40.38 ± 4%
lsc	A	14.83 ± 4%	14.89 ± 4%
25°C m	odule temp	perature, AM1.5	
	lm Voc Isc	Im A Voc V Isc A	

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

II THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	43±2
Temperature Coefficient of Pmax	¥	%/°C	-0.290
Temperature Coefficient of Voc	βνος	%/°C	-0.250
Temperature Coefficient of Isc	αisc	%/°C	0.046

I OPERATING CONDITIONS

Max.System Voltage	1500V
Max.Series Fuse Rating	254
Operating Temperature Range	40°0 05°0
Max static snow load	5400Pa
Max static wind load	3800Pa
Safet Class	П
Fire class rating	Class C

CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	108/N Type monocrystalline/182.2X95.8mm
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)	1800x1134x30mm
Weight	22.5kg

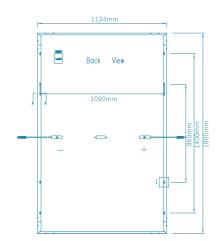
PACKING CONFIGURATION

Pieces per Box	36pcs
Pieces per Pallet	72pcs
Pieces per Container	864pcs

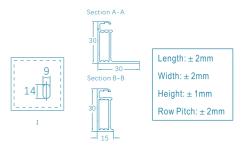
II INTERNATIONAL CERTIFICATES

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

III34mm



0mm



Please read the installation manual in this entirety before handing, installing, and operating Ulica Solar modules. Due to continuous Innocation, research and improvement, the specification is subject to change without prior notice.

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