UL-455M-108BDGN



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)



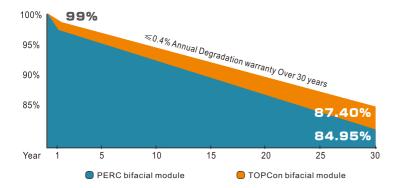
High performance under low light conditions Cloudy days, Rainy days



Double EL test before and after laminationHighly 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

















455W



F ELECTRICAL PERFORMANCE

Module Type			UL-455M-108BDGN		
			STC	BNPI	BSI
Power Output	Pmax	W	455	500	
Power Tolerance	△Pmax	W	±3%	±3%	
Module Efficiency	η m	%	22.77	25.02	
Voltage at Pmax	Vm	V	33.42	33.42	
Current at Pmax	lm	Α	13.61	14.96	
Open-Circuit Voltage	Voc	V	39.98 ± 3%	39.98 ± 3%	
Short-Circuit Current	Isc	Α	14.45 ± 3%	16.00 ± 3%	17.70
STC : AM=1.5.E=1000W/m2.T0	C=25°C		Rifaciality co	officient of Dmay 95	50/

III THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	43±2
Temperature Coefficient of Pmax	γ	%/°C	-0.290
Temperature Coefficient of Voc	βvoc	%/°C	-0.250
Temperature Coefficient of Isc	αisc	%/°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	П
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)	108/N Type monocrystalline/182X94mm
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/4mm²
Plug Connector	DC1500,PV-ZH202B/PV-JM608/PV-CY20L, Made in China

GENERAL CHARACTERISTICS

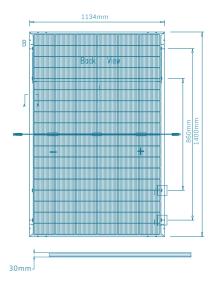
Dimension(L/W/H)	1762x1134x30mm
Weight	24.8kg

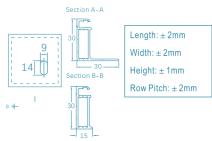
PP PACKING CONFIGURATION

Pieces per Box 36pcs	
Pieces per Pallet 72 pcs	
Pieces per Container 936pcs	

III INTERNATIONAL CERTIFICATES

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





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.