UL-540M-144HV UL-545M-144HV UL-550M-144HV



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

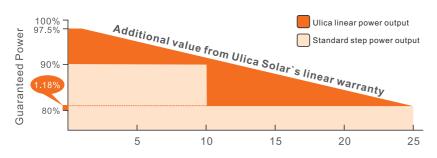


Double EL test before and after lamination

Highly control the micro cracks and invisible defects.



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



12-year Limited Product Warranty

25-year Limited Performance Warranty

Certificate Holder Name: Ningbo Ulica Solar Co., Ltd





















MONO 540W/545W/550W



FI ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type			UL-540M-144HV	UL-545M-144HV	UL-550M-144HV
Power Output	Pmax	W	540	545	550
Power Tolerance	△Pmax	W		±3%	
Module Efficiency	η m	%	21.06	21.27	21.27
Voltage at Pmax	Vm	V	41.7	41.8	41.9
Current at Pmax	lm	Α	12.95	13.04	13.13
Open-Circuit Voltage	Voc	٧	49.8 ± 4%	49.9 ± 4%	50.0 ± 4%
Short-Circuit Current	Isc	Α	13.6 ± 4%	13.65 ± 4%	13.75 ± 4%

STC: 1000w/m² irradiance, 25°C module temperature, AM1.5

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

55 THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	47±2
Temperature Coefficient of Pmax	γ	%/°C	-0.360
Temperature Coefficient of Voc	βvoc	%/°C	-0.290
Temperature Coefficient of Isc	αisc	%/°C	+0.049

OPERATING CONDITIONS

Max.System Voltage	1500V		
Max Series Fuse Rating	25A		
Operating Temperature Range	-40°C ~ 85°C		
Max static snow load	5400Pa		
Max static wind load	3800Pa		
Safet Class	П		
Fire class rating	Class C		

CONSTRUCTION MATERIALS

Front Cover(material/type/thick	ess) low-iron tempered glass/3.2mm
Cell(quantity/material/type/dime	nsion) 144/monocrystalline/ 182X91mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization cold	r) anodized aluminum alloy/silver
Junction Box(protection degree	IP68
Cable(length/cross-sectional ar	a) 400mm/4mm²
Plug Connector DC	1500,PV-ZH202B/PV-JM601A/PV-JM608/PV-CY03L, Made in China

GENERAL CHARACTERISTICS

Dimension(L/W/H)	2279x1134x35mm
Weight	28.3kg

PACKING CONFIGURATION

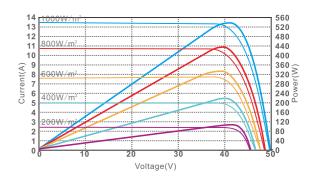
Pallet Size(L/W/H)	2325/1120/2550mm
Pallet Weight	1887kg
Pieces per Pallet	62pcs
Pieces per Container	620pcs

III INTERNATIONAL CERTIFICATES

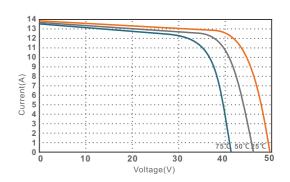
- TÜV SÜD, CE, MCS, CQC, IMERTRO
- ISO9001: 2015
- · ISO14001: 2015
- · ISO45001: 2018

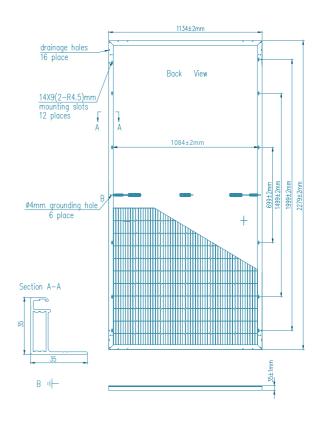
II I-V CURVE

I-V characteristics at different irradiations



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 Innocation, research and improvement, the specification is subject to change without prior notice.