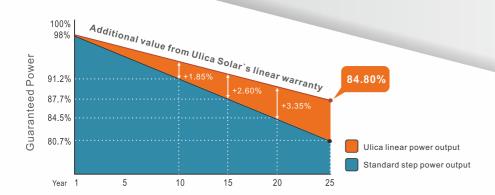


# BIFACIAL MONO PERC MODULE UL-540 | 545 | 550M-144HV 540W-550W 1500V MBB 182mm cell





#### Global Tier 1 bankable brand



#### **Bifacial Mono PERC Module**

Capable of generating power at back side, at least 70% efficiency of the front side



# Outstanding mechanical load resistance

2400 Pa wind load, 5400 Pa snow load



#### High performance under low light

Works at cloudy, rainy days



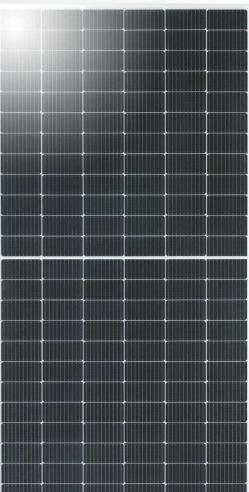
#### Anti-PID(potential induced degradation)

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























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 has been continuously listed as the Tier 1 PV Module Manufacturer from Q1 2020 by Bloomberg NEF, with the annual capacity of 3GW, and own investment projects of 300MW.

# MONO UL-540 | 545 | 550M-144HV



#### **ELECTRICAL PERFORMANCE**

Electrical Parameters Standard Test Conditions UL-540M-144HV UL-545M-144HV UL-550M-144HV Module Type **Power Output** Pmax W 545 550 △Pmax W Power Tolerance 0/+5W 21 28 Module Efficiency  $\eta$  m % 20.89 21 09 41.9 Voltage at Pmax 41.7 41.8 **Current at Pmax** 12.95 13.04 13.13 Open-Circuit Voltage Voc 49.8 49.9 50.0

13.60

13.65

13.75

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

**Short-Circuit Current** 

# THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	43±2	
Temperature Coefficient of Pmax	γ	%/°C	-0.360	
Temperature Coefficient of Voc	βvoc	%/°C	-0.290	
Temperature Coefficient oflsc	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 windload	3800Pa	
Application Class	А	

# **CONSTRUCTION MATERIALS**

Front Cover(material/type/thickness)	3.2mm low-iron tempered glass/ transparent backsheet
Cell(quantity/material/type/dimension)	144/monocrystaline/182x91mm
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)	4mm² Landscape: (+) 1400mm/(-)1400 mm Portrait: (+)400 mm/(-) 200mm
Plug Connector	MC4 compatible

Electrical characteristics with different rear side power gain(reference to 550W front)

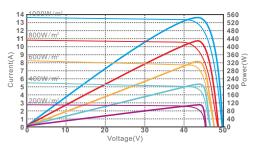
Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
550	50.0	13.75	41.9	13.13	0
578	50.0	14.44	41.9	13.78	5%
605	50.0	15.13	41.9	14.44	10%
633	50.0	15.81	41.9	15.10	15%
660	50.0	16.50	41.9	15.75	20%

#### **GENERAL CHARACTERISTICS**

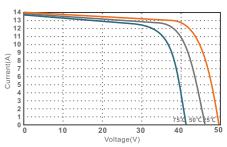
Dimension(L/W/H)	2279/1134/35mm		
Weight	27.5kg		

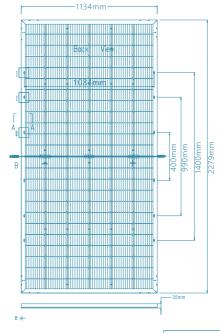
# I-V CURVE

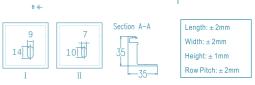
I-V characteristics at different irradiations



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.

#### **PACKING CONFIGURATION**

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

#### INTERNATIONAL CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: 2015(Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- ISO 45001: 2018 (Occupational health and safety)
- UNI 9177 la CLASSE DI REAZIONE AL FUOCO:1