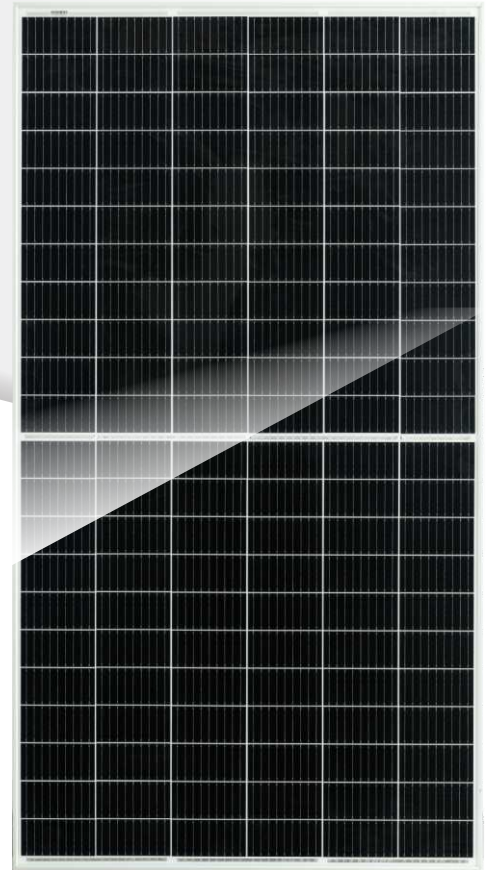
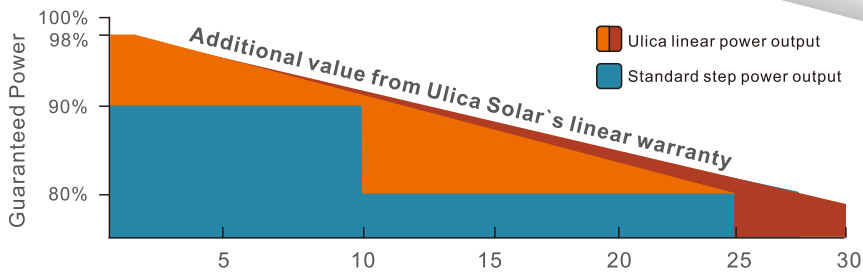


DOUBLE-GLASS BIFACIAL MODULE

UL-660 | 665 | 670M-132DG

660W~670W 1500V MBB 210mm 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



Improved durability and reliability

Double tempered glass increases module robustness and minimize micro-cracks



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 TÜV



CEC Listed



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-660 | 665 | 670M-132DG



ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type		UL-660M-132DG	UL-665M-132DG	UL-670M-132DG
Power Output	P _{max} W	660	665	670
Power Tolerance	ΔP _{max} W		0/+5W	
Module Efficiency	η m %	21.25	21.41	21.57
Voltage at P _{max}	V _m V	38.2	38.3	38.4
Current at P _{max}	I _m A	17.28	17.36	17.45
Open-Circuit Voltage	V _{oc} V	45.7	45.8	45.9
Short-Circuit Current	I _{sc} A	18.44	18.53	18.62

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

THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	43±2
Temperature Coefficient of P _{max}	γ	%/°C	-0.340
Temperature Coefficient of V _{oc}	β _{voc}	%/°C	-0.265
Temperature Coefficient of I _{sc}	α _{isc}	%/°C	-0.049

OPERATING CONDITIONS

Max.System Voltage	1500V
Max.Series Fuse Rating	35A
Operating Temperature Range	-40°C~85°C
Max static snow load	5400Pa
Max static windload	2400Pa
Application Class	A

CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	Dual glass, 2.0+2.0mm low-iron tempered glass
Cell(quantity/material/type/dimension)	132/monocrystalline/210x105mm
Encapsulant(material)	POE
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP68
Cable(length/cross-sectional area)	4mm ² Landscape: (+) 1400mm/(-) 1400 mm Portrait: (+) 400 mm/(-) 200mm
Plug Connector	MC4 compatible

Electrical characteristics with different rear side power gain(reference to 660W front)

P _{max} /W	V _{oc} /V	I _{sc} /A	V _{mp} /V	I _{mp} /A	P _{max} gain
660	45.7	18.44	38.2	17.28	0
693	45.7	19.36	38.2	18.14	5%
726	45.7	20.28	38.2	19.01	10%
759	45.7	21.21	38.2	19.87	15%
792	45.7	22.73	38.2	20.73	20%

GENERAL CHARACTERISTICS

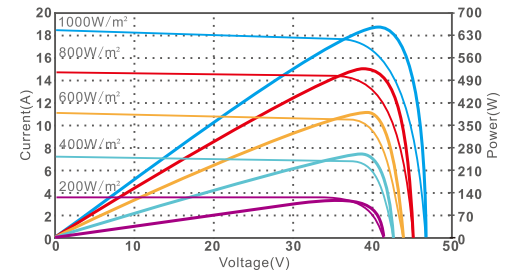
Dimension(L/W/H)	2384/1303/35mm
Weight	38.7kg

PACKING CONFIGURATION

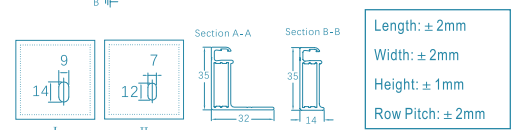
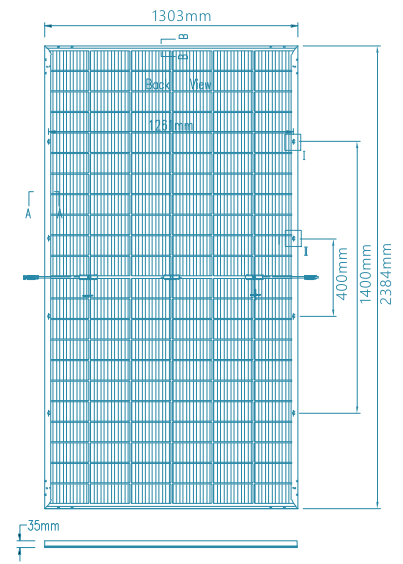
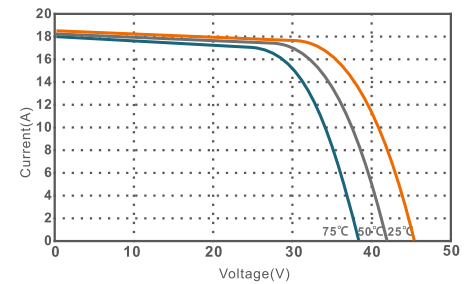
Pallet Size(L/W/H)	1320/1130/2525mm
Pallet Weight	1235mm
Pieces per Pallet	31pcs
Pieces per Container	558pcs

I-V CURVE

I-V characteristics at different irradiances



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.

INTERNATIONAL CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: 2015(Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- ISO45001: 2018 (Occupational health and safety)
- UNI 9177 la CLASSE DI REAZIONE AL FUOCO:1