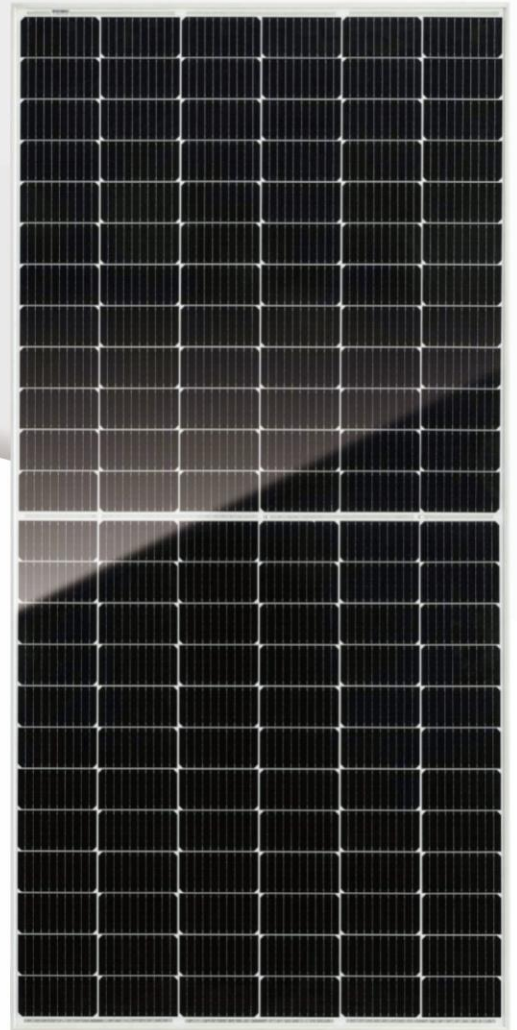
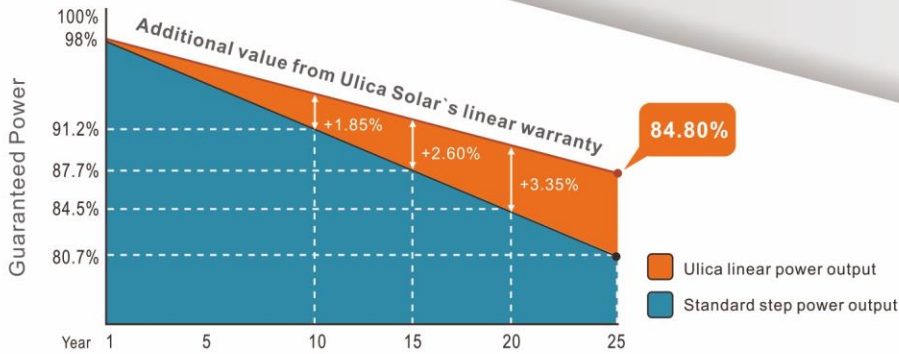


MONO HALF-CUT MODULE

UL-445M-144HV

445W 1500V



Global Tier 1 bankable brand



12% more power than conventional modules



Lower power degradation
Lower internal current
Lower hot spot temperature



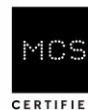
Outstanding mechanical load resistance
3800 Pa wind load, 5400 Pa snow load



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



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-445-144HV



ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type	UL-445M-144HV		
Power Output	P _{max}	W	445
Power Tolerance	ΔP _{max}	W	0/+5W
Module Efficiency	η _m	%	20.47
Voltage at P_{max}	V _m	V	40.9
Current at P_{max}	I _m	A	10.88
Open-Circuit Voltage	V _{oc}	V	49.7
Short-Circuit Current	I _{sc}	A	11.45

STC:1000w/m² irradiance,25C 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	-0.290
Temperature Coefficient of I_{sc}	α _{isc}	%/°C	+0.049

OPERATING CONDITIONS

Max.System Voltage	1500V
Max.Series Fuse Rating	20A
Operating Temperature Range	-40°C~85°C
Max static snow load	5400Pa
Max static wind load	3800Pa
Application Class	A

CONSTRUCTION MATERIALS

Front Cover(material/type/thickness)	low-iron tempered glass/3.2mm
Cell(quantity/material/type/dimension)	144/monocrystalline/166X83mm
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)	4mm ² Landscape: (+) 1400mm/(-) 1400mm Portrait: + 400 mm/ - 200mm
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

Dimension(L/W/H)	2094/1038/30mm
Weight	23kg

PACKING CONFIGURATION

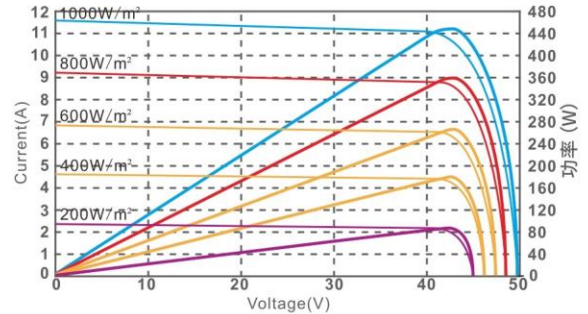
Pallet Size(L/W/H)	2150/1120/2490mm
Pallet Weight	1738kg
Pieces per Pallet	72pcs
Pieces per Container	792pcs

INTERNATIONAL CERTIFICATES

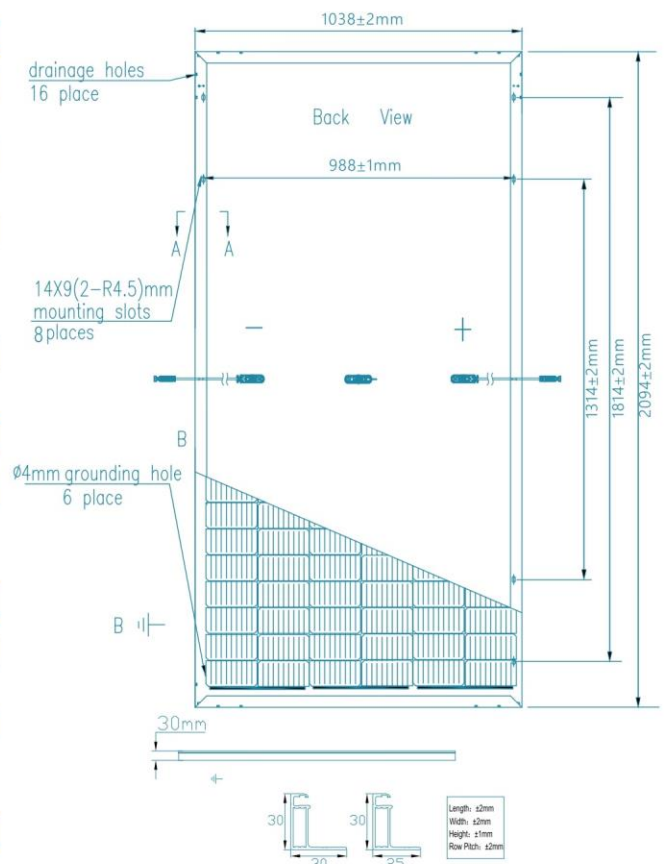
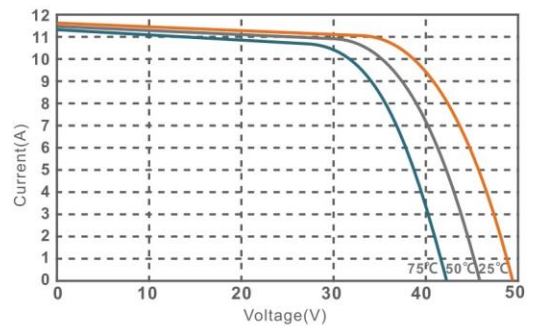
- IEC 61215, IEC 61730
- ISO 9001: 2015(Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- ISO 45001: 2018 (Occupational health and safety)
- UNI 9177 la CLASSE DI REAZIONE AL FUOCO:1

I-V CURVE

I-V characteristics at different irradiancies



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.