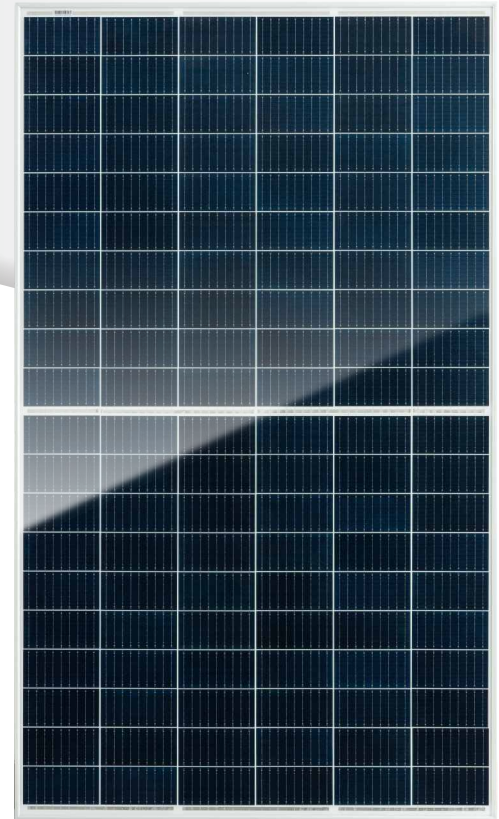
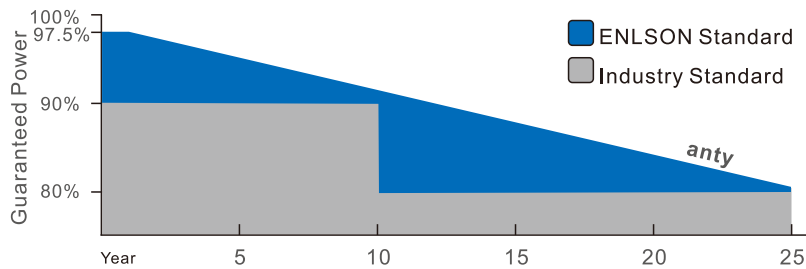


POLY HALF-CUT MODULE

NS-285 | 290 | 295P

285W~295W 1500V



Half-Cell Module

Reduced resistance between cells
Less micro cracks, higher output power



Outstanding mechanical load resistance

3800 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



Double electroluminescence (EL) tests

Carefully inspected before and after lamination
to guarantee fault-free modules



ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type		NS-285P	NS-290P	NS-295P
Power Output	P _{max} W	285	290	295
Power Tolerance	ΔP _{max} W		0/+5W	
Module Efficiency	η _m %	17.05	17.35	17.65
Voltage at P _{max}	V _m V	31.4	31.6	31.8
Current at P _{max}	I _m A	9.08	9.18	9.28
Open-Circuit Voltage	V _{oc} V	38.6	38.8	39.1
Short-Circuit Current	I _{sc} A	9.48	9.58	9.75

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	-0.370
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	DC1500V
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)	120/polycrystalline / 156.75x78.375mm
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)	400mm(or Customized Length)/4mm ²
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

Dimension(L/W/H)	1685/992/35mm
Weight	18.5kg

PACKING CONFIGURATION

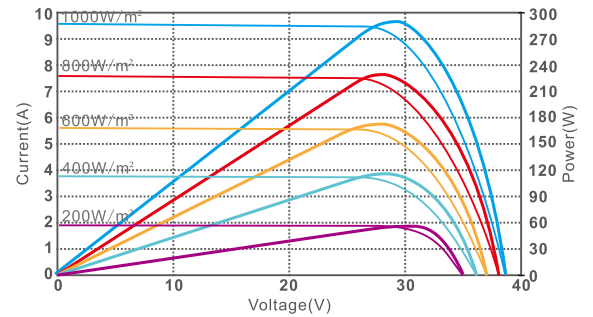
Pallet Size(L/W/H)	1725/1120/2440mm
Pallet Weight	1301kg
Pieces per Pallet	62pcs+4pcs
Pieces per Container	832pcs

INTERNATIONAL CERTIFICATES

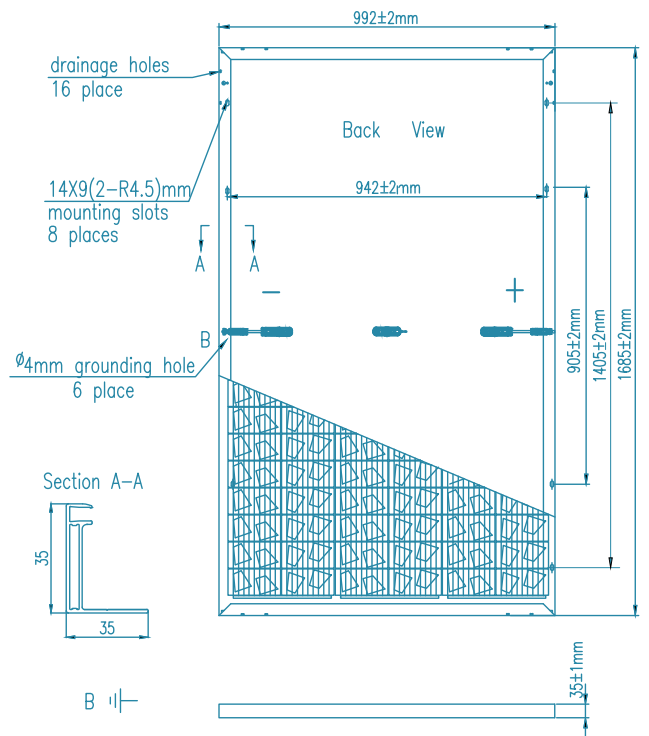
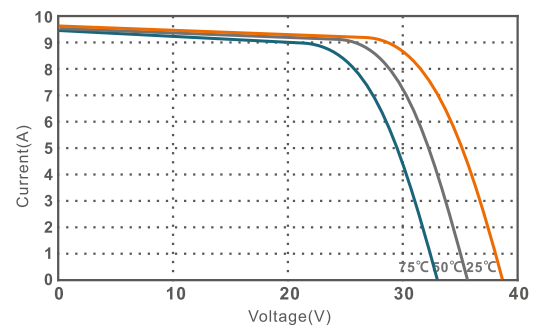
- IEC 61215, IEC 61730
- ISO 9001: 2015(Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- OHSAS 18001: 2015 (Occupational health and safety)

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.