





Ulica Solar is a subsidiary of Shanshan Co.,Ltd(SH.600884), Top 500 Enterprise in China. Ulica designs and manufactures high-quality solar cells and panels starting from August 2005. Its product line covers both mono and poly crystalline models, suitable for full range of projects from off-grid to on-grid, from residential to commercial.


POLY 60CELL PERC


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Higher Conversion Efficiency
With new generation of PERC technology, the average conversion efficiency of the cells could reach 19.7%
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Positive power output (0~+5W)
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Outstanding mechanical load resistance
Snow load 5400Pa (Frontside), and Wind load 3800Pa (Backside)
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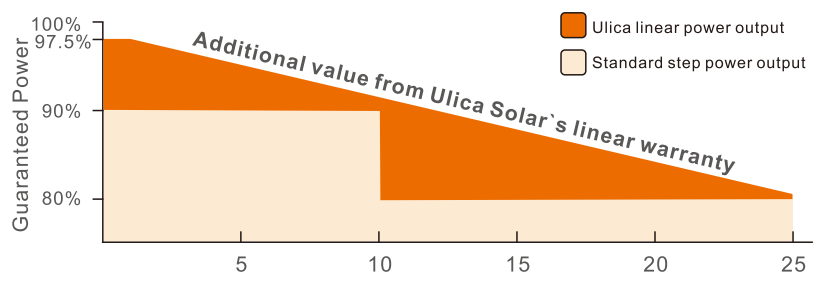
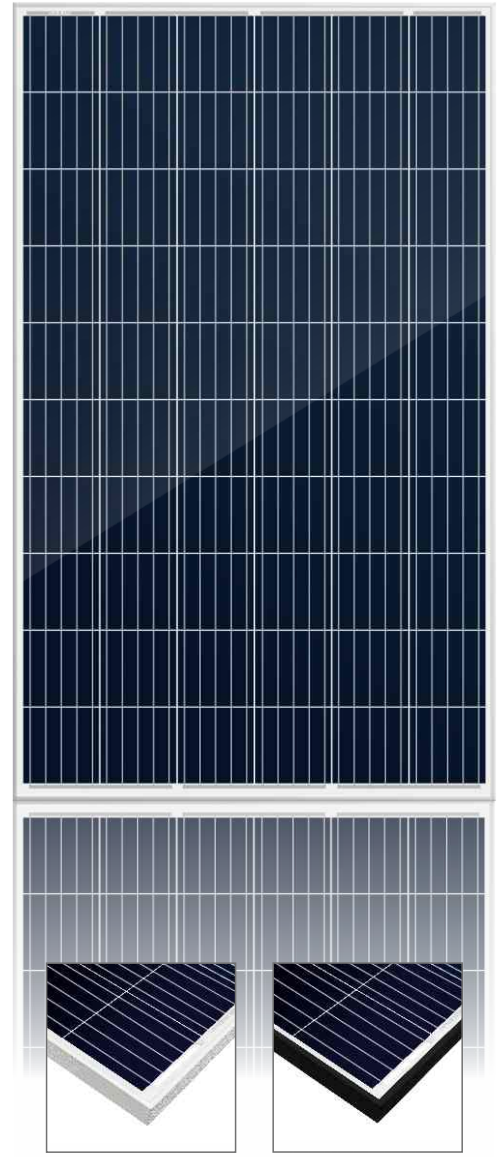
High performance under low light conditions
Cloudy days, Rainy days
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Anti-PID (potential induced degradation) Test
Passed anti-PID test under Damp Heat 85°C and 85% RH 96Hours
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Durability against extreme environmental conditions
Salt mist corrosion test, Ammonia corrosion test, Dust & Sand test, Fire test, certified by TÜV SÜD
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Double EL test before and after lamination
Highly control the micro cracks and invisible defects.
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World famous insurance
Solar Insurance&Finance(Netherlands), AON(Japan)



12-year product warranty
25-year linear power warranty



ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type			UL-285P-60	UL-290P-60	UL-295P-60
Power Output	P _{max}	W	285	290	295
Power Tolerance	ΔP _{max}	W		0/+5W	
Module Efficiency	η _m	%	17.41	17.72	18.02
Voltage at P _{max}	V _m	V	31.5	31.7	31.9
Current at P _{max}	I _m	A	9.05	9.15	9.25
Open-Circuit Voltage	V _{oc}	V	38.7	38.9	39.2
Short-Circuit Current	I _{sc}	A	9.45	9.55	9.65

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

THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P _{max}	γ	%/°C	-0.390
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	1000V
Max. Series Fuse Rating	15A
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)	60/polycrystalline/156.75x156.75mm
Encapsulant(material)	ethylene vinyl acetate(EVA)
Frame(material/anodization color)	anodized aluminum alloy/silver or black
Junction Box(protection degree)	IP67
Cable(length/cross-sectional area)	900mm/4mm ²
Plug Connector	MC4 compatible

GENERAL CHARACTERISTICS

Dimension(L/W/H)	1650/992/35mm
Weight	18.5kg

PACKING CONFIGURATION

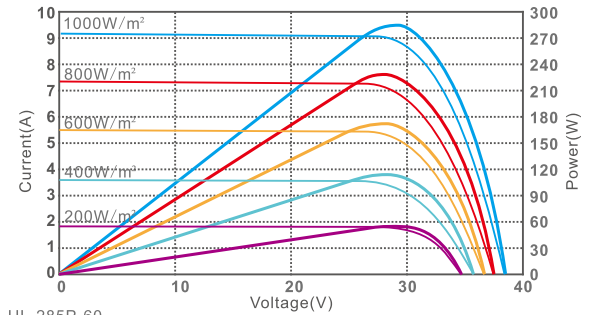
Pallet Size(L/W/H)	1690/1100/2440mm
Pallet Weight	1260kg
Pieces per Pallet	64pcs
Pieces per Container	896pcs

INTERNATIONAL CERTIFICATES

- TÜV SÜD, TÜV NORD, UL, CE, JET, CEC, MCS, CQC, IMERTRO, NRE, KS
- ISO9001:2008
- ISO14001:2004
- BS OHSAS 18001:2007

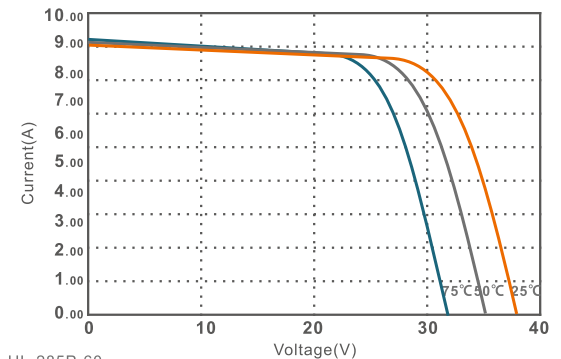
I-V CURVE

I-V characteristics at different irradiances

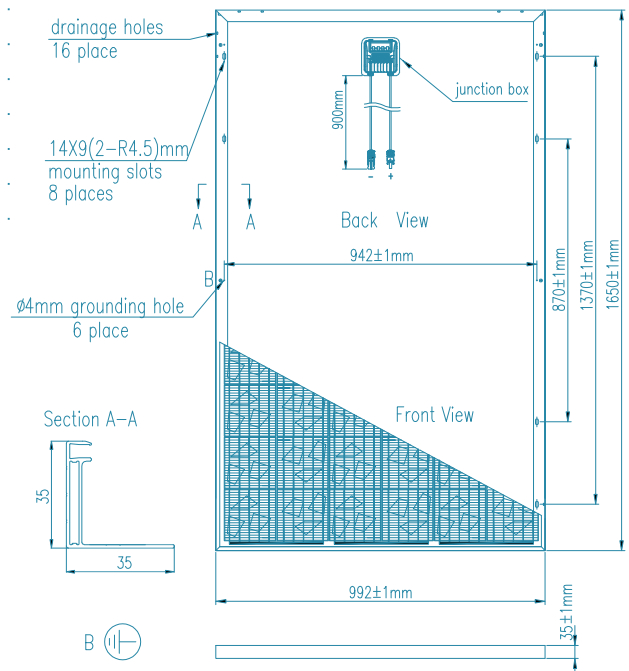


UL-285P-60

I-V characteristics at different temperature



UL-285P-60



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.