

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.

NEW PERC



5 Bus bar cell design

More evenly distributed mechanical stress
Less micro cracks and resistance losses
Higher fill factor and higher performance



Positive power tolerance (0~+5W)



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 TUV



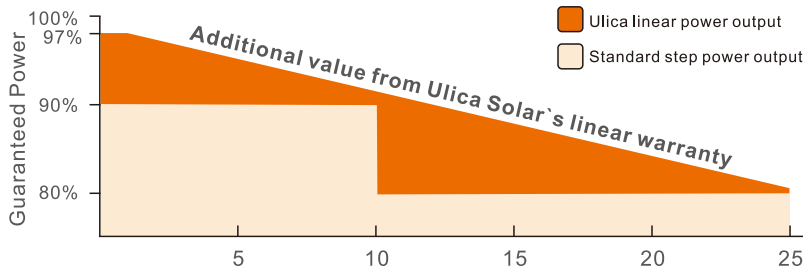
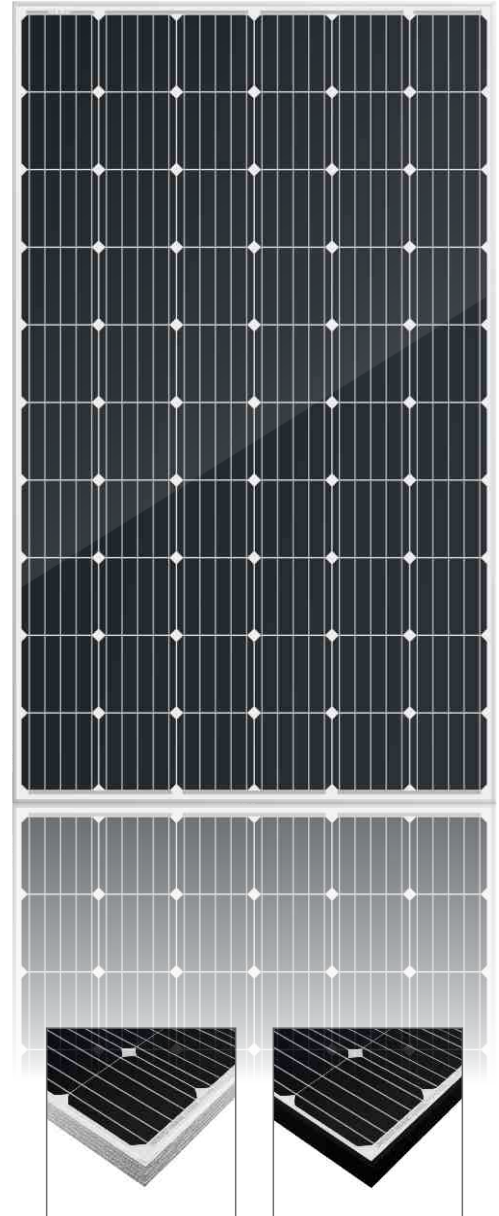
Double electroluminescence (EL) tests

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



World famous insurance

CHUBB(USA), Solar Insurance&Finance(Netherlands), AON(Japan)



12-year product warranty

25-year linear power warranty



MONO 290W/295W/300W

ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

Module Type			UL-290M-60	UL-295M-60	UL-300M-60
Power Output	P _{max}	W	290	295	300
Power Tolerance	ΔP _{max}	%		0/+5W	
Module Efficiency	η _m	%	17.86	18.17	18.33
Voltage at P _{max}	V _m	V	32.1	32.3	32.5
Current at P _{max}	I _m	A	9.03	9.13	9.23
Open-Circuit Voltage	V _{oc}	V	39.5	39.8	40.0
Short-Circuit Current	I _{sc}	A	9.43	9.53	9.64

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

THERMAL CHARACTERISTICS

Nominal Operating Cell Temperature	NOCT	°C	45±2
Temperature Coefficient of P _{max}	γ	%/°C	-0.395
Temperature Coefficient of V _{oc}	β _{voc}	%/°C	-0.320
Temperature Coefficient of I _{sc}	α _{isc}	%/°C	+0.045

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/monocrystalline/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

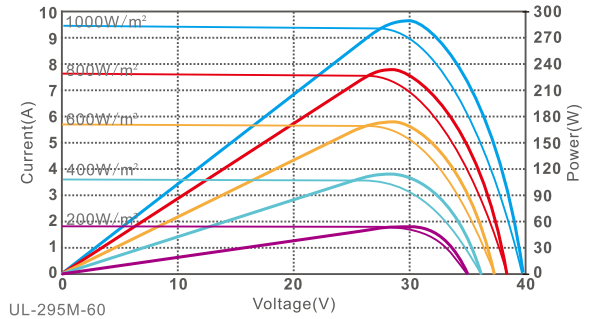
Pallet Size(L/W/H)	1730/1120/2350mm
Pallet Weight	1100kg
Pieces per Pallet	58pcs
Pieces per Container	754pcs

INTERNATIONAL CERTIFICATES

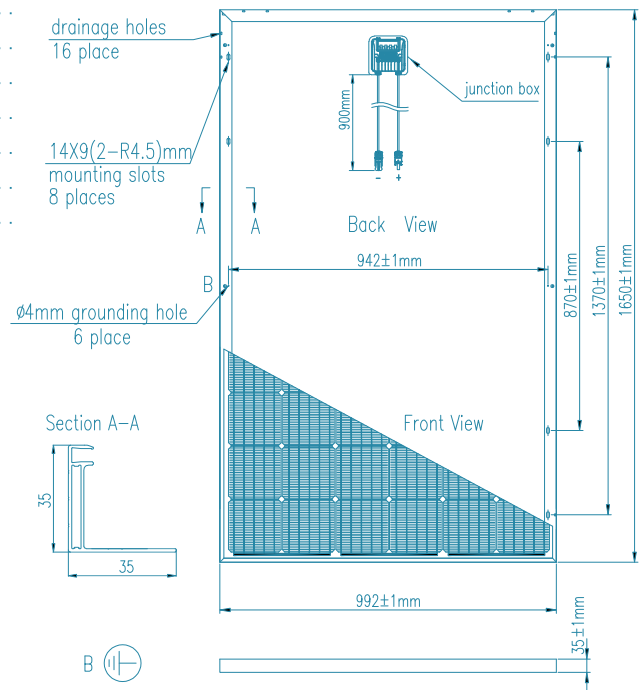
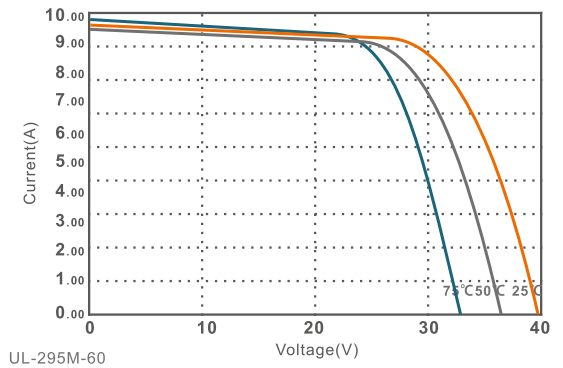
- TÜV SÜD, TÜV NORD, UL, CE, JET, CEC, MCS, CQC, IMERTRO, NRE, KS
- ISO9001:2008
- ISO14001:2004
- BS OHSAS 18001:2007

I-V CURVE

I-V characteristics at different irradiances



I-V characteristics at different temperature



Please read the instruction manual in this entirety before handing, installing, and operating Ulica Solar modules.
Due to continuous innovation, research and improvement, the specification is subject to change without prior notice.