

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 5BB



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 TÜV



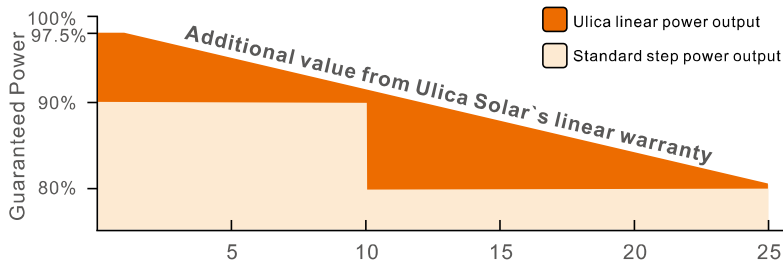
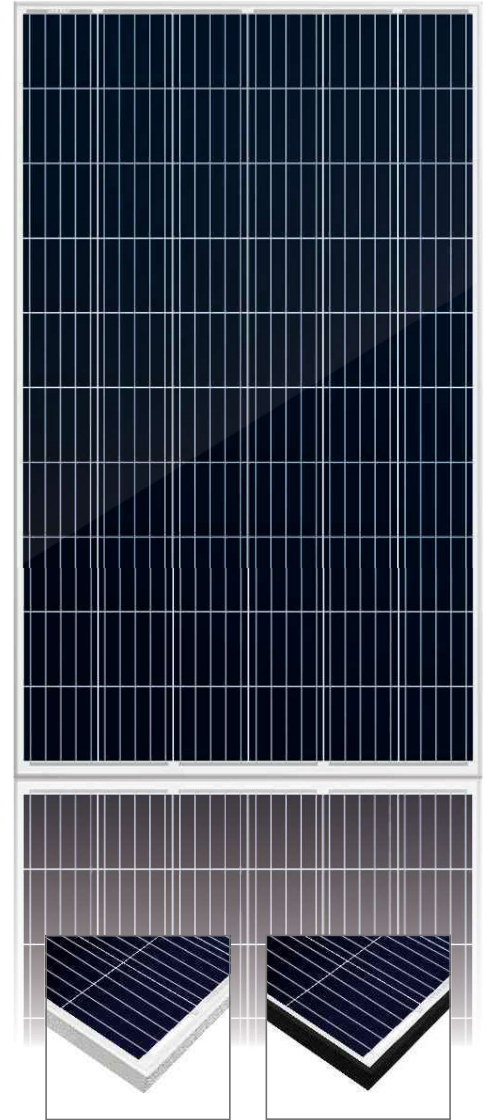
Double electroluminescence (EL) tests

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



POLY 265W/270W/275W/280W



ELECTRICAL PERFORMANCE

Electrical Parameters Standard Test Conditions

| Module Type | | | UL-265P-60 | UL-270P-60 | UL-275P-60 | UL-280P-60 |
|-----------------------------|-------------------|---|------------|------------|------------|------------|
| Power Output | P _{max} | W | 265 | 270 | 275 | 280 |
| Power Tolerance | ΔP _{max} | W | 0/+5W | | | |
| Module Efficiency | η _m | % | 16.19 | 16.50 | 16.80 | 17.11 |
| Voltage at P _{max} | V _m | V | 30.9 | 31.0 | 31.1 | 31.3 |
| Current at P _{max} | I _m | A | 8.58 | 8.71 | 8.85 | 8.95 |
| Open-Circuit Voltage | V _{oc} | V | 38.0 | 38.2 | 38.3 | 38.5 |
| Short-Circuit Current | I _{sc} | A | 9.02 | 9.13 | 9.25 | 9.35 |

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 | -0.403 |
| Temperature Coefficient of Voc | β _{voc} | %/°C | -0.330 |
| Temperature Coefficient of Isc | 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

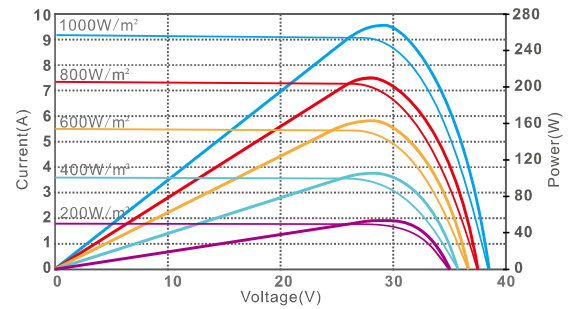
| | |
|----------------------|------------------|
| Pallet Size(L/W/H) | 1690/1100/2440mm |
| Pallet Weight | 1260kg |
| Pieces per Pallet | 64pcs |
| Pieces per Container | 896pcs |

INTERNATIONAL CERTIFICATES

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

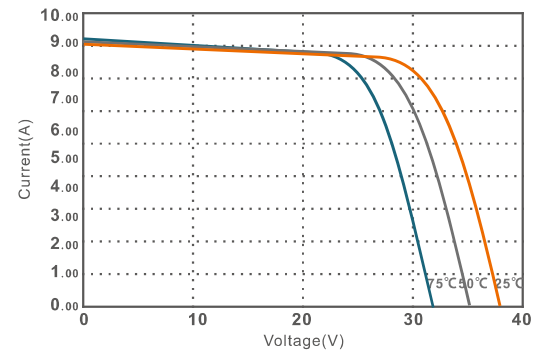
I-V CURVE

I-V characteristics at different irradiances

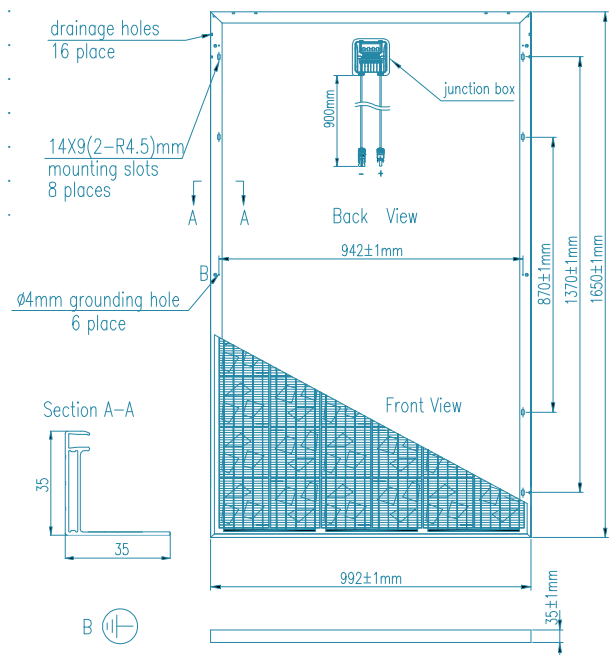


UL-270P-60

I-V characteristics at different temperature



UL-270P-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.