

UL-230P-60

Enjoy a sunny life!



Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



Guaranteed power output (0~+3%)



High performance under low light conditions
(Cloudy days ,mornings and evenings)



Independently certified by international certification bodies*, plus the Salt Mist Corrosion certificate and Ammonia Corrosion certificate.



Manufactured according to International Quality and Environment Management System(ISO 9001:2008,ISO 14001:2004,BS OHSAS 18001:2007)

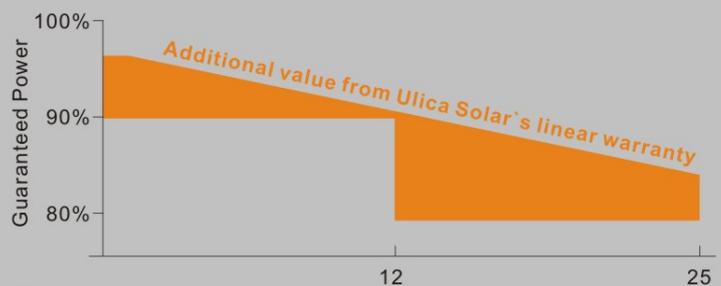


Black frame and black sheet are optional with aesthetic module appearance



Linear performance warranty

10 year product warranty
25 year linear power warranty



- 10-year limited product warranty¹.
- Limited power warranty: 12 years at 90% of the minimal rated power output, 25 years at 80% of the minimal rated power output.
¹In compliance with our warranty Terms and Conditions

*CE, IEC61215/61730, TUV, UL, ISO, MCS, CEC, PV CYCLE



UL-230P-60



ELECTRICAL PERFORMANCE

Electrical parameters Standard Test Conditions (STC)

| Module type | | | UL-230P-60 |
|-----------------------|------------------|---|------------|
| Power output | P_{max} | W | 230 |
| Power tolerance | ΔP_{max} | % | 0~+3 |
| Cell efficiency | η_m | % | 15.8 |
| Module efficiency | η_m | % | 14.1 |
| Voltage at P_{max} | V_m | V | 30.0 |
| Current at P_{max} | I_m | A | 7.67 |
| Open-Circuit Voltage | V_{oc} | V | 36.7 |
| Short-Circuit Current | I_{sc} | A | 8.34 |

STC:1000W/m² irradiance,25° C module temperature, AM 1.5g spectrum.

THERMAL CHARACTERISTICS

| | | | |
|--------------------------------------|----------------|-----|--------|
| Nomial operation cell temperature | NOCT | °C | 45±2 |
| Temperature coefficient of P_{max} | γ | %°C | -0.403 |
| Temperature coefficient of V_{oc} | β_{voc} | %°C | -0.330 |
| Temperature coefficient of I_{sc} | α_{isc} | %°C | +0.065 |

OPERATING CONDITIONS

| | |
|---|------------|
| Max.system voltage | 1000V |
| Max.series fuse rating | 15A |
| Operating temperature range | -40°C~85°C |
| Max.static load,front(e.g.,snow and wind) | 5400Pa |
| Max.static load,back(e.g.,wind) | 2400Pa |

CONSTRUCTION MATERIALS

| | |
|--|--------------------------------|
| Front cover(material/type/thickness) | low-iron tempered glass/3.2mm |
| Cell(quantity/material/type/dimension) | 60/Polycrystalline/156mmx156mm |
| Encapsulant(material) | ethylene vinyl acetate(EVA) |
| Frame(material/anodization color) | anodized aluminum alloy/clear |
| Junction box(protection degree) | IP65 |
| Cable(length/cross-section/area) | 900mm/4mm ² |
| Plug connector | MC4 compatible |

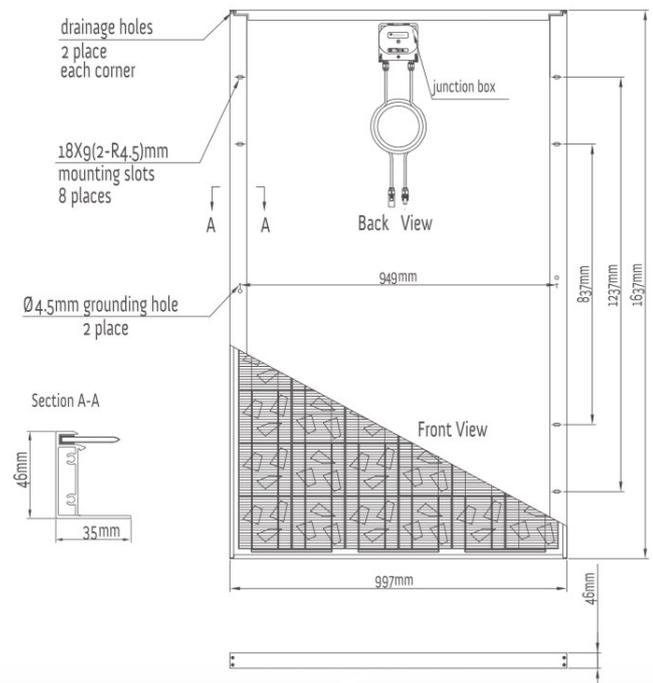
- Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.
- The data do not refer to a single module and they are not part of the offer, they only serve for the comparison to different module types.

GENERAL CHARACTERISTICS

| | |
|------------------|-------------------|
| Dimension(L/W/H) | 1637mm/997mm/46mm |
| Weight | 19.0kg |

PACKING CONFIGURATION

| | |
|-----------------------|-----|
| Pieces per pallet | 48 |
| Pallets per container | 13 |
| Pieces per container | 624 |



Please read the instruction manual in this entirety before handing, installing, and operating Ulica Solar modules.

Our partner: