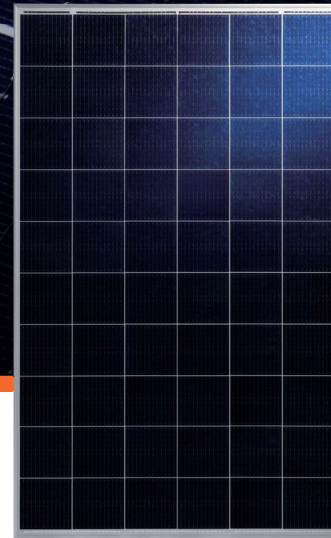


MIPRO III

TP660P - 275 / 280 / 285W

High Efficiency MBB Polycrystalline Solar Module
60-Cell Series



KEY FEATURES



12 bus-bar cell technology

Excellent anti-microcracking performance with more balanced interior stress; grid pattern current path, lower Rs



Maximize limited space

Concentration effect of round solder strip, maximum power output 285W



Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



Lower LCoE

1% more power generation, lower LCoE



Anti
PID

Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV Rheinland



Highly reliable due to stringent quality control

In-house testing goes well beyond certification requirements



Certified to withstand the most challenging environmental conditions

2400 Pa wind load • 5400 Pa snow load • 25 mm hail stones at 82 km/h



IP68 junction box

The highest waterproof level

ABOUT TALESUN SOLAR

TALESUN Solar is one of the world's largest integrated clean energy providers with 4 GW cell and 5 GW module production capacity globally. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry. Talesun Solar is committed to provide customers with customized; systematized and trustworthy turnkey solutions. Till now, Talesun Solar has accumulatively shipped more than 10 GW modules globally.

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001 : 2008 Quality Management System
- ISO 14001 : 2004 Environment Mangement System
- OHSAS 18001 : 2007 Occupational Health and Safety Management System



QUALITY WARRANTY

TALESUN guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL 1703 under normal installation, use and maintenance as specified in Talesun's installation manual for 10 years from the warranty starting date.

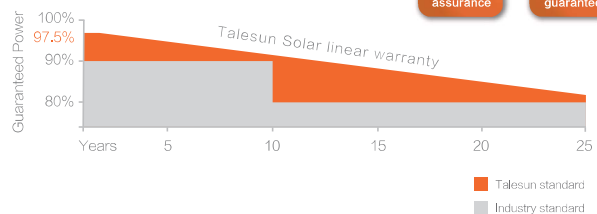


PERFORMANCE WARRANTY

Polycrystalline Solar Module

10 years
Quality assurance

25 years
Power output guarantee



TALESUN



Web: www.talesun.com
Tel: +86 400 885 1098
Add: No.1 Talesun Road, Shajabang, Changshu, P.R. China

ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 – +3%)

| | | | |
|---------------------------------|------|------|------|
| Maximum Power (Pmax/W) | 275 | 280 | 285 |
| Operating Voltage (Vmpp/V) | 31.7 | 32.0 | 32.3 |
| Operating Current (Impp/A) | 8.69 | 8.76 | 8.83 |
| Open-Circuit Voltage (Voc/V) | 38.7 | 39.0 | 39.3 |
| Short-Circuit Current (Isc/A) | 9.17 | 9.25 | 9.30 |
| Module Efficiency η_m (%) | 16.8 | 17.1 | 17.4 |

Performance at NOCT

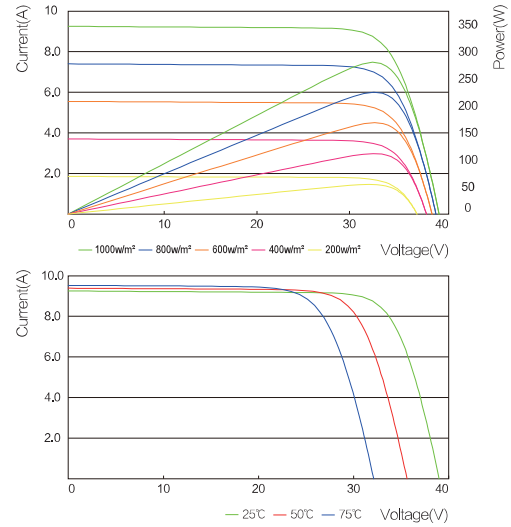
| | | | |
|---------------------------------|------|------|------|
| Maximum Power (Pmax/W) | 203 | 207 | 210 |
| Operating Voltage (Vmpp/V) | 29.2 | 29.4 | 29.7 |
| Operating Current (Impp/A) | 6.97 | 7.04 | 7.08 |
| Open-Circuit Voltage (Voc/V) | 35.7 | 36.0 | 36.2 |
| Short-Circuit Current (Isc/A) | 7.42 | 7.49 | 7.53 |

STC: Irradiance 1000W/m², Cell Temperature 25° C, Air Mass AM1.5 NOCT: Irradiance at 800W/m², Ambient Temperature 20° C, Wind Speed 1m/s

MECHANICAL SPECIFICATION

| | |
|---------------------------|---|
| Cell Type | MBB Poly |
| Cell Dimensions | 156.75*156.75mm(6inch) |
| Cell Arrangement | 60(6*10) |
| Weight | 18.5kg(40.8lbs) |
| Module Dimensions | 1650*992*35mm(64.96*39.06*1.38inch) |
| Cable Length | 900mm(35.4inch) |
| Cable Cross Section Size | 4mm ² (0.006sq.in) |
| Front Glass | 3.2mm High Transmission, Tempered Glass |
| No.of Bypass Diodes | 3/6 |
| Packing Configuration (1) | 30pcs/Pallet,840pcs/40hq |
| Packing Configuration (2) | 30pcs+5pcs/Pallet, 910pcs/40hq |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 |

I-V CURVE



OPERATING CONDITIONS

| | |
|------------------------|-----------------------------|
| Maximum System Voltage | 1000V/DC(IEC)/1500V/DC(IEC) |
| Operating Temp. | -40°C ~ +85°C |
| Maximum Series Fuse | 15A |
| Static Loading | 5400Pa |
| Conductivity at Ground | ≤ 0.1 Ω |
| Safety Class | II |
| Resistance | ≥ 100M Ω |
| Connector | MC4 Compatible |

TEMPERATURE COEFFICIENT

| | |
|------------------------------|-----------|
| Temperature Coefficient Pmax | -0.40%/°C |
| Temperature Coefficient Voc | -0.31%/°C |
| Temperature Coefficient Isc | +0.06%/°C |
| NOCT | 45 ± 2°C |

TECHNICAL DRAWINGS

