

# PIPRO Poly

## TP660P / TP660P(H)

### 275 / 280 / 285 / 290 / 295 W

Polycrystalline Solar Module

#### 60-Cell Series



#### KEY FEATURES



##### Maximize limited space

Maximum power output 295W



##### Excellent Anti-PID performance

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



##### 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



##### Lower temperature coefficients

Enhance power generation

#### SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Mangement System
- ISO 45001 : 2018 Occupational Health and Safety

Management Systems



#### QUALITY WARRANTY

TALESUN guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL1703 under normal installation, use and maintenance as specified in Talesun' s installation manual for 10 years from the warranty starting date.



#### ABOUT TALESUN SOLAR

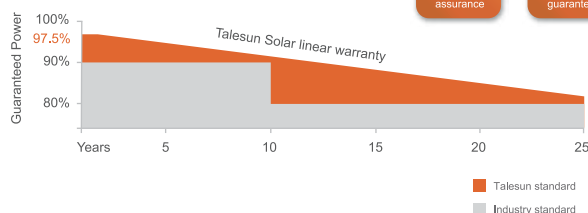
TALESUN Solar is one of the world's largest integrated clean energy providers with 4 GW cell and 5 GW module production capacity globally. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry. Talesun Solar is committed to provide customers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

#### PERFORMANCE WARRANTY

Polycrystalline Solar Module

**10** years  
Quality assurance

**25** years  
Power output guarantee



## ELECTRICAL PARAMETERS

### Performance at STC (Power Tolerance 0 - +3%)

Maximum Power(P <sub>max</sub> /W)	275	280	285	290	295
Operating Voltage(V <sub>mpp</sub> /V)	31.0	31.3	31.7	32.0	32.3
Operating Current(I <sub>mpp</sub> /A)	8.88	8.95	9.00	9.07	9.14
Open-Circuit Voltage(V <sub>oc</sub> /V)	38.2	38.5	38.7	39.0	39.3
Short-Circuit Current(I <sub>sc</sub> /A)	9.49	9.57	9.65	9.73	9.81
Module Efficiency η <sub>m</sub> (%)	16.5	16.8	17.1	17.4	17.7

### Performance at NMOT

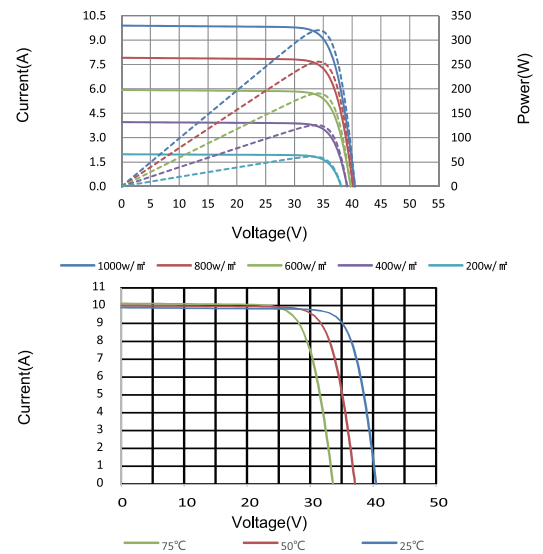
Maximum Power(P <sub>max</sub> /W)	205.1	208.7	212.6	216.3	220
Operating Voltage(V <sub>mpp</sub> /V)	28.7	29	29.2	29.5	29.7
Operating Current(I <sub>mpp</sub> /A)	7.15	7.21	7.27	7.34	7.4
Open-Circuit Voltage(V <sub>oc</sub> /V)	35.5	35.8	36	36.2	36.5
Short-Circuit Current(I <sub>sc</sub> /A)	7.67	7.74	7.8	7.87	7.93

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

## MECHANICAL SPECIFICATION

Cell Type	Poly-Crystalline Silicon(5Busbar)
Cell Dimensions	158.75*158.75mm (6inches)
Cell Arrangement	60(6*10)
Weight	19kg(41.9 lbs.)
Module Dimensions	1665*1002*35mm (65.55*39.45*1.38inches)
Cable Length	900mm(35.43inches)
Cable Cross Section Size	4mm <sup>2</sup> (0.006inches <sup>2</sup> )
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	20A
Static Loading	5400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

## TEMPERATURE COEFFICIENT

Temperature Coefficient P <sub>max</sub>	-0.40%/°C
Temperature Coefficient V <sub>oc</sub>	-0.31%/°C
Temperature Coefficient I <sub>sc</sub>	+0.06%/°C
NMOT	43±2°C

## TECHNICAL DRAWINGS

