

# HIPRO II

## TP660M - 290 / 295 / 300 / 305W / 310W

High Efficiency PERC Monocrystalline Solar Module  
60-Cell Series



### KEY FEATURES



#### Maximize limited space

PERC cell technology, maximum power output 310W



#### Excellent low light performance

Advanced surface texturing·Back surface field



#### 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



#### Lower temperature coefficients

Enhance power generation

### 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 UL1703 under normal installation, use and maintenance as specified in Talesun' s installation manual for 10 years from the warranty starting date.

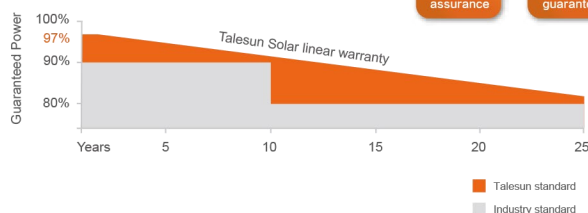


### PERFORMANCE WARRANTY

Monocrystalline Solar Module

**10** years  
Quality assurance

**25** years  
Power output guarantee



### 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.

# TALESUN



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## ELECTRICAL PARAMETERS

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

Maximum Power(Pmax/W)	290	295	300	305	310
Operating Voltage(Vmpp/V)	32.4	32.6	32.9	33.2	33.5
Operating Current(Imp/A)	8.96	9.05	9.12	9.20	9.26
Open-Circuit Voltage(Voc/V)	39.3	39.5	39.7	39.9	40.1
Short-Circuit Current(Isc/A)	9.47	9.52	9.58	9.64	9.69
Module Efficiency $\eta$ (%)	17.7	18.0	18.3	18.6	18.9

### Performance at NOCT

Maximum Power(Pmax/W)	214	217	221	225	229
Operating Voltage(Vmpp/V)	29.9	30.1	30.3	30.7	31.0
Operating Current(Imp/A)	7.17	7.24	7.30	7.34	7.38
Open-Circuit Voltage(Voc/V)	36.3	36.5	36.7	36.9	37.0
Short-Circuit Current(Isc/A)	7.65	7.69	7.74	7.79	7.83

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## MECHANICAL SPECIFICATION

Cell Type	Mono
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 <sup>2</sup> (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 BLACK
Junction Box	IP68

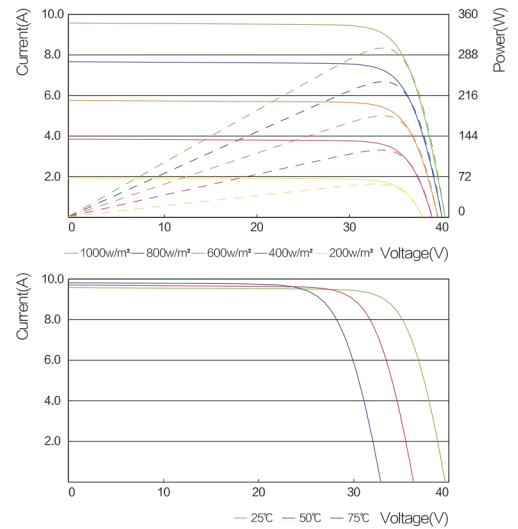
## OPERATING CONDITIONS

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	≤ 0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

## TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.39%/°C
Temperature Coefficient Voc	-0.30%/°C
Temperature Coefficient Isc	+0.05%/°C
NOCT	45±2°C

## I-V CURVE



## TECHNICAL DRAWINGS

