# HIPRO PERC mono TP660M / TP660M(H) 300 / 305 / 310 / 315 / 320 W

High Efficiency PERC Monocrystalline Solar Module 60-Cell Series



## **KEY FEATURES**



## Maximize limited space

PERC cell technology, maximum power output 320W



## **Excellent low light performance**

Advanced surface texturing Back surface field



#### **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

# **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

## **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.









## PERFORMANCE WARRANTY

Monocrystalline Solar Module Talesun Solar linear warranty 90%

ELECTRICAL PARAMETERS					
Performance at STC (Power Tolerance 0 - +3%)					
Maximum Power(Pmax/W)	300	305	310	315	320
Operating Voltage(Vmpp/V)	32.9	33.2	33.5	33.9	34.3
Operating Current(Impp/A)	9.12	9.20	9.26	9.30	9.34
Open-Circuit Voltage(Voc/V)	39.7	39.9	40.1	40.3	40.5
Short-Circuit Current(Isc/A)	9.58	9.64	9.69	9.75	9.81
Module Efficiency ηm(%)	18.33	18.63	18.94	19.24	19.55
Performance at NMOT					
Maximum Power(Pmax/W)	223.3	227.2	230.6	234.1	237.5
Operating Voltage(Vmpp/V)	30.7	31.0	31.3	31.5	31.7
Operating Current(Impp/A)	7.28	7.34	7.38	7.43	7.48
Open-Circuit Voltage(Voc/V)	37.0	37.1	37.3	37.5	37.6
Short-Circuit Current(Isc/A)	7.73	7.78	7.82	7.87	7.92

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFIC	ATION
Cell Type	Mono-Crystalline Silicon(5Busbar)
Cell Dimensions	6inches
Cell Arrangement	60(6*10)
Weight	18.5 (40.79 lbs)
Module Dimensions	1650×992×35 (64.96×39.06×1.38inches)
Cable Length	900mm(35.43inches)
Cable Cross Section Size	4mm²(0.006inches²)
Front Glass	3.2mm High Transmission, Tempered Glass

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

Cable Length	900mm(35.43inches)
Cable Cross Section Size	4mm²(0.006inches²)
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
OPERATING CONDITIONS	S

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	
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
NMOT	43±2°C

#### **I-V CURVE** 9.0 350 Current(A) 300 7.5 250 6.0 200 4.5 150 3.0 100 50 0.0 15 20 30 40 45 -1000w/m² — 800w/m² — 600w/m² — 400w/m² — 200w/m² Voltage(V) 10 9 8

# TECHNICAL DRAWINGS

- 25°C - 50°C - 75°C Voltage(V)

