# 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



#### 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  $\cdot$  5400 Pa snow load  $\cdot$  25 mm hail stones at 82 km/h

## IP68 junction box

The highest waterproof level

## ABOUT TALESUN SOLAR

**TALESUN** 

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







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 $\eta$ 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			

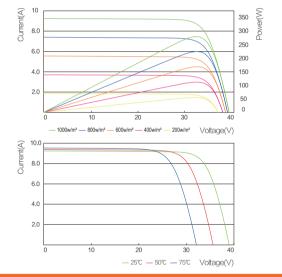
## MECHANICAL SPECIFICATION

## I-V CURVE

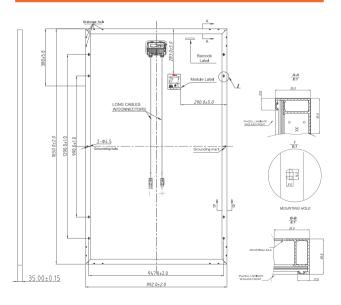
Cell Type	MBB Poly
Cell Dimensions	156.75*156.75mm(6inch)
Cell Arrangement	60(6*10)
Weight	18.5kg(40.8lbs)
Module Dimensions	1650*992*35mm(64.96*39.06*1.38inch)
Cable Length	900mm(35.4inch)
Cable Cross Section Size	4mm²(0.006sq.in)
Front Glass	3.2mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	30pcs/Pallet,840pcs/40hq
Packing Configuration (2)	30pcs+5pcs/Pallet, 910pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

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	I
Resistance	≥100MΩ
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT	
Temperature Coefficient Pmax	−0.40%/℃
Temperature Coefficient Voc	−0.31%/℃
Temperature Coefficient Isc	+0.06%/°C
NOCT	45±2℃



## **TECHNICAL DRAWINGS**



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