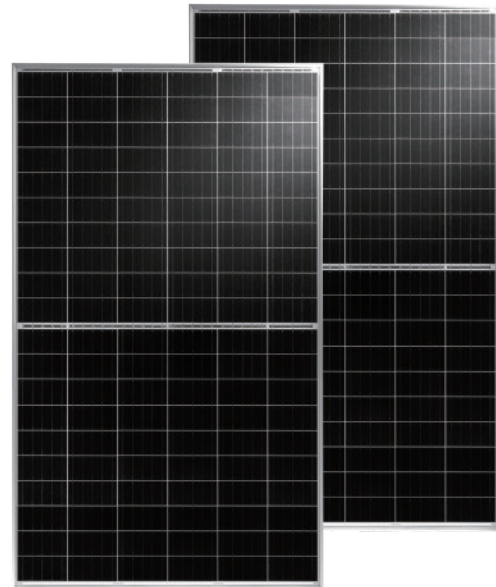


# CIPRO

TP6H60M **120 half-cell**

**315 - 335W**  
half-cut cast mono



## KEY FEATURES



### Half-cut cell technology

New circuit design, lower internal current, lower Rs loss



### Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature



### Lower LCOE

2% more power generation, lower LCOE



### Excellent Anti-PID performance

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



### IP68 junction box

High waterproof level

## SYSTEM & PRODUCT CERTIFICATES

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

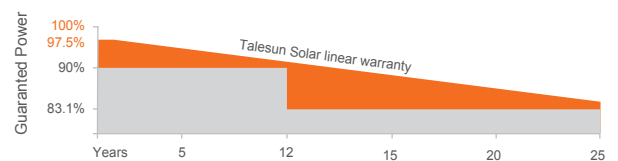


## PERFORMANCE WARRANTY

**12** years  
Quality assurance

**25** years  
Power output guarantee

■ Talesun standard  
■ Industry standard



## ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	315	320	325	330	335
Operating Voltage (Vmpp/W)	33.2	33.5	33.8	34.2	34.6
Operating Current (Impp/A)	9.49	9.56	9.62	9.66	9.69
Open-Circuit Voltage (Voc/V)	39.9	40.1	40.3	40.5	40.7
Short-Circuit Current (Isc/A)	10.09	10.16	10.22	10.26	10.29
Module Efficiency $\eta$ m(%)	18.7	19.0	19.3	19.6	19.9

### Performance at NMOT

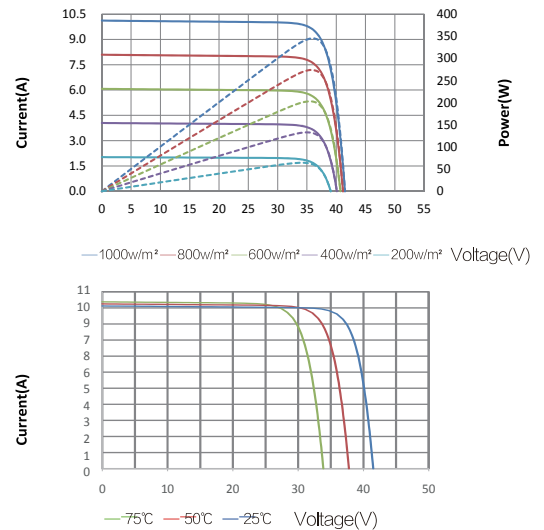
Maximum Power (Pmax/W)	234.7	238.3	241.8	245.6	248.8
Operating Voltage (Vmpp/W)	30.6	30.9	31.2	31.5	31.8
Operating Current (Impp/A)	7.66	7.71	7.76	7.80	7.83
Open-Circuit Voltage (Voc/V)	37.2	37.3	37.5	37.7	37.8
Short-Circuit Current (Isc/A)	8.14	8.20	8.25	8.28	8.31

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	Cast Mono-Crystalline Silicon (5Busbar)
Cell Dimensions	158.75*158.75mm (6inches)
Cell Arrangement	120 (6*20)
Weight	20.7kg (45.64lbs)
Module Dimensions	1684*1002*35mm (66.30*39.45*1.38inches)
Cable Length (Portrait)	(+300mm (11.81inches)) / (-300mm (11.81inches))
Cable Length (Landscape)	(+1200mm (47.24inches)) / (-1200mm (47.24inches))
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)	31pcs/carton, 806pcs/40hq
Packing Configuration (2)	31+4pcs/carton, 858pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

## I-V CURVE



## OPERATING CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-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 Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

## TECHNICAL DRAWINGS

