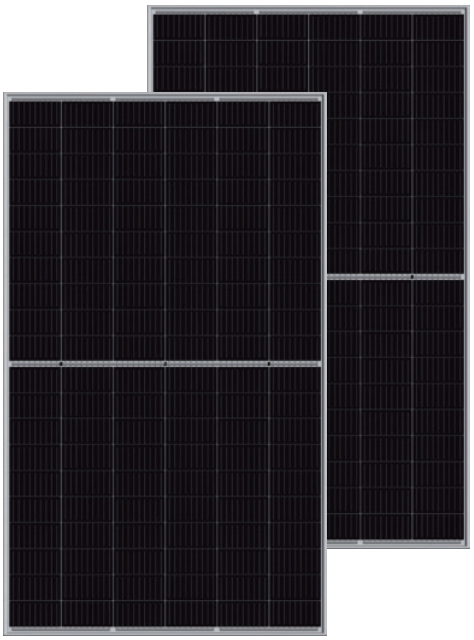
TALESUN

CIPRO

TP6F60M 120 half-cell

320 - 340W

9BB half-cut cast mono



KEY FEATURES

9BB 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

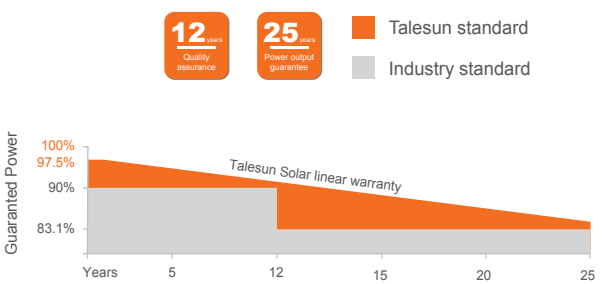
SYSTEM & PRODUCT CERTIFICATES

- 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

CEC Approved

TIS.1843-2553 TIS.2580-2555

PERFORMANCE WARRANTY



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Annual Module Capacity Globally: 8GW
China: 7GW
Thailand: 1GW

Talesun Solar is one of the world's largest integrated clean energy providers, who develops, manufactures and delivers highly reliable and cost-effective solar modules and integrated PV energy solutions for every application and market, for homes, businesses and utility power plants. It was ranked as one of the top 10 module suppliers in 2018, and was also listed as global TIER1 module supplier by BNEF since 2015.

ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	320	325	330	335	340
Operating Voltage (Vmpp/W)	33.5	33.8	34.1	34.4	34.7
Operating Current (Impp/A)	9.55	9.61	9.66	9.74	9.80
Open-Circuit Voltage (Voc/V)	40.1	40.3	40.5	40.7	40.9
Short-Circuit Current (Isc/A)	9.99	10.06	10.12	10.18	10.24
Module Efficiency ηm(%)	18.9	19.2	19.5	19.8	20.1

Performance at NMOT

Maximum Power (Pmax/W)	237.9	241.3	244.2	248.4	251.9
Operating Voltage (Vmpp/W)	31.3	31.5	31.7	31.9	32.2
Operating Current (Impp/A)	7.61	7.67	7.71	7.78	7.83
Open-Circuit Voltage (Voc/V)	37.3	37.5	37.6	37.8	38.0
Short-Circuit Current (Isc/A)	8.06	8.12	8.17	8.22	8.27

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATION

Cell Type	Cast Mono-Crystalline Silion (9Busbar)
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	300mm (11.81inches)
Cable Cross Section Size	4mm² (0.006inches²)
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

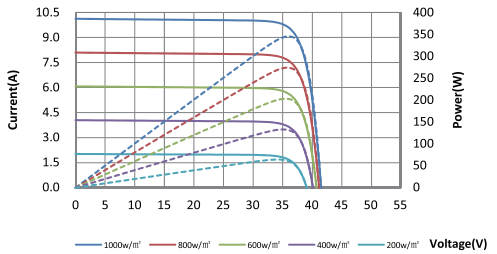
OPERATING CONDITIONS

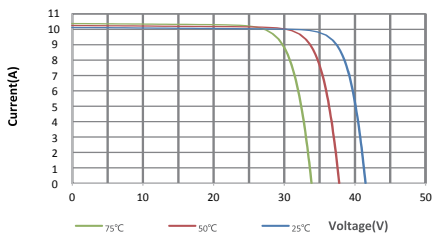
Maximun System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	20A
Static Loading	5400pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT

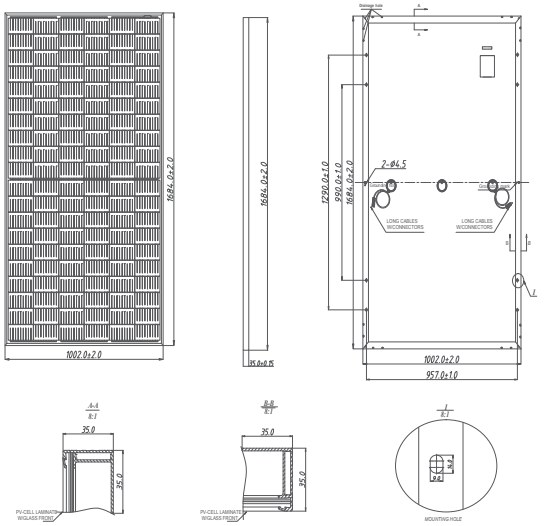
Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

I-V CURVE





TECHNICAL DRAWINGS



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