

BISTAR

TP6F72M(H)-XXX **144 half-cell**

410 - 415W

9BB half-cut mono perc



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



IP68 junction box

High waterproof level

SYSTEM & PRODUCT CERTIFICATES

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

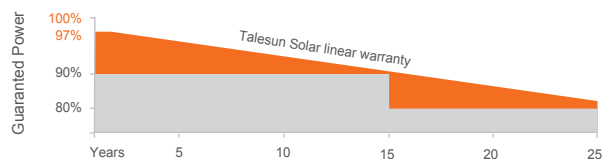
PERFORMANCE WARRANTY

15 years
Quality assurance

25 years
Power output guarantee

■ Talesun standard

■ Industry standard



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance $\pm 3\%$; Binning tolerance: 0~+5W)

Maximum Power (Pmax/W)	410	415
Operating Voltage (Vmpp/V)	40.9	41.1
Operating Current (Impp/A)	10.04	10.11
Open-Circuit Voltage (Voc/V) (Tolerance $\pm 4\%$)	49.5	49.8
Short-Circuit Current (Isc/A) (Tolerance $\pm 4\%$)	10.58	10.66
Module Efficiency $\eta_m(\%)$	20.4	20.6

Performance at NMOT

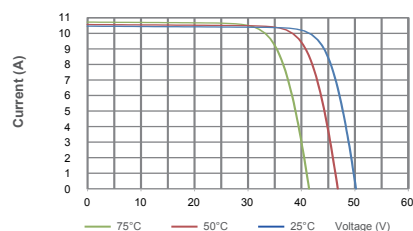
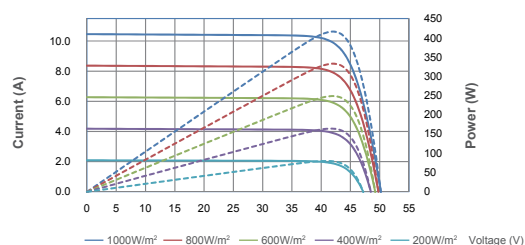
Maximum Power (Pmax/W)	305.9	309.5
Operating Voltage (Vmpp/V)	38.0	38.3
Operating Current (Impp/A)	8.04	8.09
Open-Circuit Voltage (Voc/V)	46.1	46.4
Short-Circuit Current (Isc/A)	8.54	8.60

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

MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	158.75*158.75mm
Cell Arrangement	144 (6*24)
Weight	22.5kg (49.6lbs)
Module Dimensions	2008*1002*35mm (79.06*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 ² (0.006inches ²)
Front Glass	3.2mm High Transmission, Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration(1)	31pcs/carton, 682pcs/40hq
Packing Configuration(2)	31+4pcs/carton, 726pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE



OPERATING CONDITIONS

Maximum System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	20A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	$\leq 0.1\Omega$
Safety Class	II
Resistance	$\geq 100M\Omega$
Connector	PV-KST4-EVO2/xy-UR(male), PV-KBT4-EVO2/xy-UR(female) ; T01 ; LJQ-3
Fire Rating (according to UL790)	Class C

TEMPERATURE COEFFICIENT

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

TECHNICAL DRAWINGS

