



EM & PRODUCTION CERTIFICATION

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



PERFORMANCE WARRANTY



KEY FEATURES



**10BB Heterojunction Cell**  
 New circuit design, lower internal current, lower  $R_s$  loss  
 Ga doped wafer, attenuation <2% (1st year) /  $\leq 0.55\%$  (Linear)



**Special circuit design**  
 Special circuit design with much lower hot spot temperature



**Low LCOE**  
 2% more power generation, lower LCOE



**Enhanced Anti-PID**  
 2 times of industry standard Anti-PID test



**IP68 Waterproof**  
 High waterproof level

## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	530	395	535	398	540	402	545	406	550	410
Operating Voltage (Vmpp/V)	41.32	38.60	41.48	38.70	41.64	38.80	41.80	39.00	41.96	39.10
Operating Current (Impp/A)	12.83	10.24	12.90	10.30	12.97	10.36	13.04	10.41	13.11	10.47
Open-Circuit Voltage (Voc/V)	49.32	46.40	49.46	46.50	49.60	46.70	49.76	46.80	49.92	47.00
Short-Circuit Current (Isc/A)	13.72	11.06	13.79	11.12	13.86	11.17	13.93	11.23	14.00	11.28
Module Efficiency (%)	20.50		20.70		20.90		21.10		21.30	

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (10Busbar)
No. of Cells	144pcs in series (6*24)
Module Dimensions	2278*1134*35mm (89.69*44.65*1.38inches)
Weight	28kg (61.73lbs.)
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

Maximum System Voltage	1000V/1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Safety Protection Class	Class II

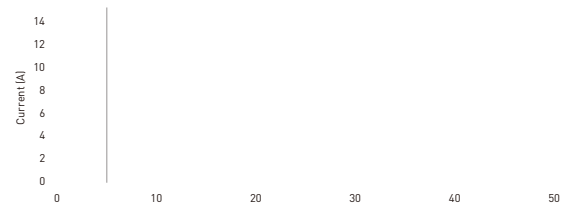
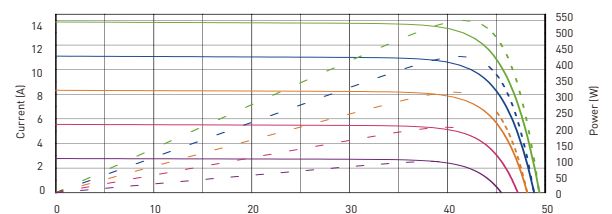
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.048%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

## PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	620	620

## PERFORMANCE



## TECHNICAL DRAWING



Talesun Solar Technology Co., Ltd. R&D  
 Sales Department  
 P.O. Box 1000, Zhongshan Road, Zhongshan City, Guangdong Province, China  
 Tel: +86 760 8533 8888 Fax: +86 760 8533 8889  
 Email: sales@talesun.com