



KEY FEATURES 



**9BB Half-cut Cell Technology**

New circuit design, lower internal current, lower  $R_s$  loss  
Ga doped wafer, attenuation <2% (1st year) / 0.45% (Linear)



**Industry Leading High Yield**

Bifacial PERC cell technology,  
5%-25% more yield depends on different conditions



**Excellent Anti-PID Performance**

2 times of industry standard Anti-PID test



## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	360	268	365	271	370	275	375	278	380	282
Operating Voltage (Vmpp/V)	34.3	31.6	34.6	31.9	34.9	32.1	35.2	32.3	35.5	32.6
Operating Current (Impp/A)	10.50	8.46	10.56	8.50	10.61	8.55	10.66	8.60	10.71	8.64
Open-Circuit Voltage (Voc/V)	40.7	37.9	40.9	38.0	41.1	38.2	41.3	38.4	41.5	38.6
Short-Circuit Current (Isc/A)	11.15	9.00	11.20	9.04	11.26	9.09	11.31	9.13	11.37	9.17
Module Efficiency [%]	19.80		20.00		20.30		20.60		20.90	

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

## REAR SIDE POWER GAIN(REFERENCE TO 375W FRONT)

	5%	10%	15%	20%	25%
Pmax gain					
Pmax/W	394	413	431	450	469
Vmpp/V	35.2	35.2	35.2	35.2	35.2
Impp/A	11.19	11.73	12.26	12.79	13.33
Voc/V	41.3	41.3	41.3	41.3	41.3
Isc/A	11.88	12.44	13.01	13.57	14.14

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon(9Busbar)
No. of Cells	120pcs in series (6*20)
Module Dimensions	1755*1038*30mm(69.09*40.87*1.18 inches)
Weight	23.5kg (51.8lbs)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	70%±5%

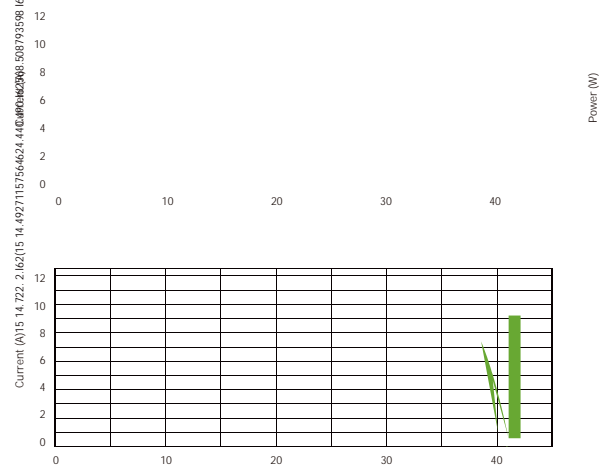
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

## PACKING CONFIGURATION

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	936	792

## I-V CURVE



## TECHNICAL DRAWINGS



Talesun Solar Energy Co., Ltd. R&D