



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/m², Spectra at AM1.5, Module Temperature 25 °C . Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 °C , Wind speed 1m/s

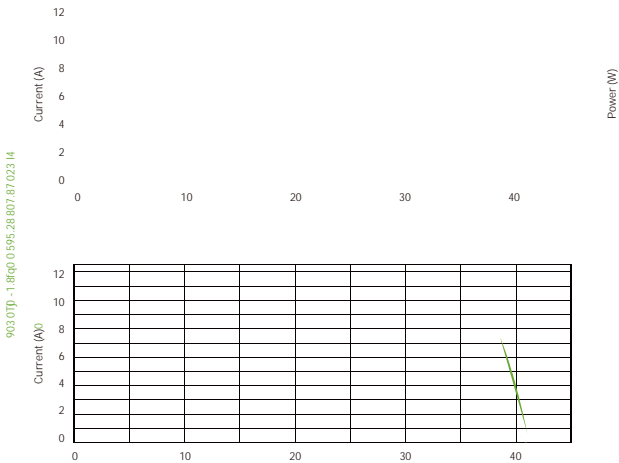
REAR SIDE POWER GAIN(REFERENCE TO 375W FRONT)

Pmax gain	5%	10%	15%	20%	25%
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	4mm² (IEC), 12AWG(UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

I-V CURVE



APPLICATION CONDITIONS

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

TECHNICAL DRAWINGS

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



Talesun Solar Technology Co., Ltd. is a leading manufacturer of monocrystalline silicon solar modules, committed to providing high-quality, efficient, and reliable solar energy solutions. Our products are designed for a wide range of applications, from residential rooftop systems to large-scale commercial and utility projects. With a focus on innovation and sustainability, we continuously invest in research and development to improve our module efficiency and performance. Our commitment to quality is reflected in our ISO 9001 certification and adherence to international standards. We offer comprehensive technical support and after-sales service to ensure customer satisfaction. For more information, please visit our website or contact our sales team. R&D