



2 Years
Power Output
Guarantee

Linear Performance Warranty



ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	535	398	540	402	545	406	550	410	555	413
Operating Voltage (Vmpp/V)	41.48	38.70	41.64	38.80	41.80	39.00	41.96	39.10	42.12	39.30
Operating Current (Impp/A)	12.90	10.30	12.97	10.36	13.04	10.41	13.11	10.47	13.18	10.52
Open-Circuit Voltage (Voc/V)	49.46	46.50	49.60	46.70	49.76	46.80	49.92	47.00	50.08	47.10
Short-Circuit Current (Isc/A)	13.79	11.12	13.86	11.17	13.93	11.23	14.00	11.28	14.07	11.34
Module Efficiency (%)	20.70		20.90		21.1		21.30		21.50	

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 540W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	567	594	621	648	675
Vmpp/V	41.64	41.64	41.64	41.64	41.64
Impp/A	13.62	14.27	14.92	15.56	16.21
Voc/V	49.60	49.60	49.60	49.60	49.60
Isc/A	14.55	15.25	15.94	16.63	17.33

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	29kg (61.9lbs.)
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm ² (IEC),12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

I-V CURVE

APPLICATION CONDITIONS

Maximun System Voltage	1000V/1500V/DC
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	30A
Safety Protection Class	Class II
Mechanical Load (Front side)	5400Pa
Mechanical Load (Back side)	2400Pa
Refer. Bifaciality Factor	70%+5%/-10%

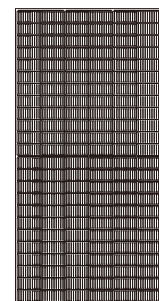
TEMPERATURE CHARACTERISTICS

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

TECHNICAL DRAWINGS



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.