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℃. Power output tolerance: 0~+5W, Test uncertainty for Pmax：±3%

NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20℃, Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 540W FRONT)

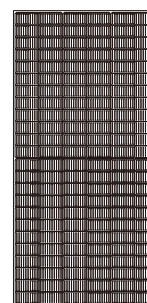| Pmax gain	5%	10%	15%	20%	25%
Pmax/W	567	594	621	648	675
Vmpp/V	41.64	41.64	41.64	41.64	41.64
Impp/A	13.62	14.27	14.92	15.56	16.21
Voc/V	49.60	49.60	49.60	49.60	49.60
Isc/A	14.55	15.25	15.94	16.63	17.33

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	4mm²(IEC),12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EVO2

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

I-V CURVE

TECHNICAL DRAWINGS

TALESUN