

Mono Module

275W, 280W, 285W, 290W, 295W, 300W

**DNV-GL
PVEL TEST**

DNV GL enables organizations to advance the safety, sustainability, and named in the top group



Industry leading lowest thermal co-efficient of power



Excellent low irradiance performance

PID

Excellent PID resistance



Positive tight power tolerance of +5W

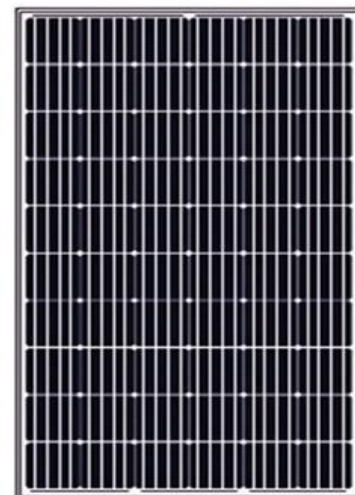
**3
EL**

Triple stage 100% EL inspection warranting defect-free products



Certified to withstand severe environmental conditions:

1. Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
2. Dynamic mechanical load test by 1000 cycles+50TC+10HF

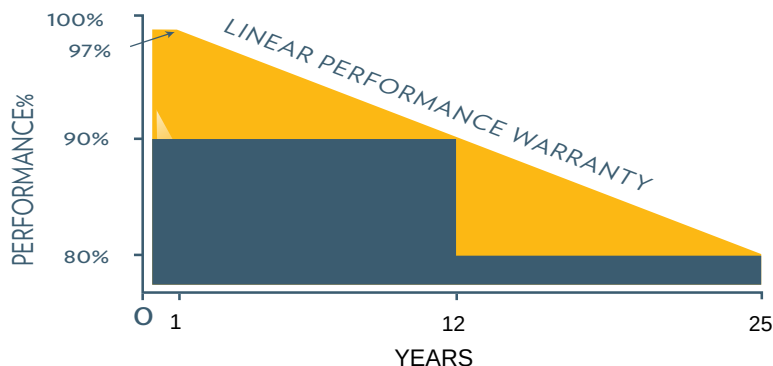


Supply Black and Silver Frame



self-certified

Made in USA
of U.S. and
imported parts



12-year

material & workmanship

25-year

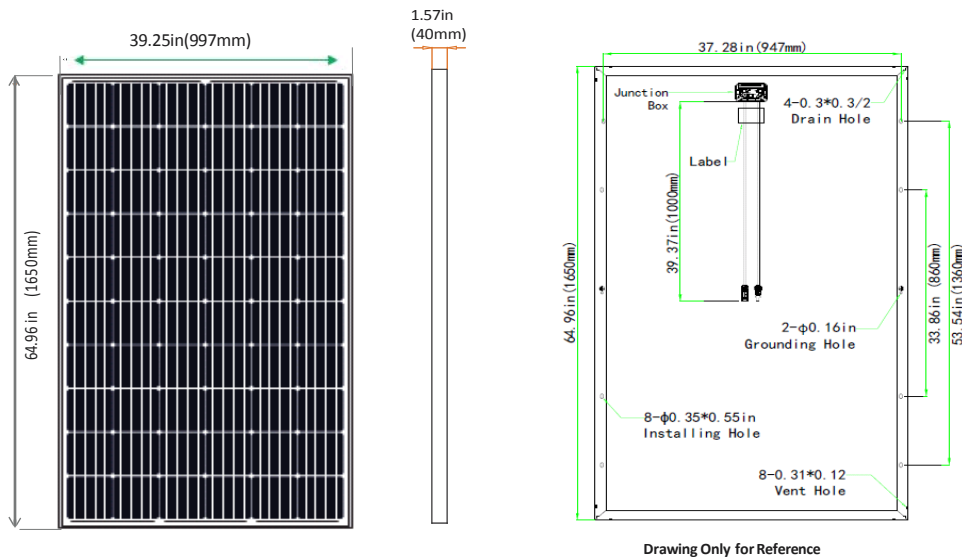
linear power output



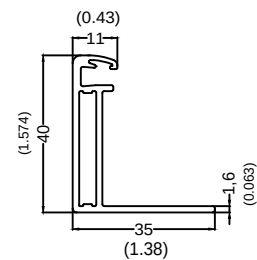
ISO 9001
ISO 14001
OHSAS 18001



Dimensions



Unit: mm (in)

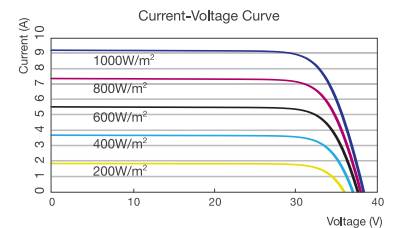


Electrical Characteristics

	SST-275W	SST-280W	SST-285W	SST-290W	SST-295W	SST-300W
Maximum Power(Pmax)	275W	280W	285W	290W	295W	300W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	16.7%	17.0%	17.3%	17.6%	17.9%	18.2%
Maximum Power Current(Imp)	8.68A	8.81A	8.94A	9.07A	9.20A	9.33A
Maximum Power Voltage(Vmp)	31.70V	31.81V	31.92V	32.03V	32.14V	32.25V
Short Circuit Current(Isc)	9.26A	9.33A	9.44A	9.56A	9.67A	9.78A
Open Circuit Voltage(Voc)	38.88V	39.08V	39.28V	39.46V	39.64V	39.82V

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

IV-CURVE



Mechanical Characteristics

Cell Type	Mono crystalline 6 inch, 60 (6x10) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65/IP67 rated, with bypass diodes
Dimension	*64.96x39.25x1.57in. (1650x997x40mm)
Output Cable	4mm ² (EU)/12AWG(US), 39.37in(1000mm)
Weight	42.8lbs(19.4kg)
Installation Hole Location	See Drawing Above

Characteristics

Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.35%/°C
Temperature Coefficient of Pmax	-0.47%/°C
Nominal Operating Cell Temperature (NOCT)	45 ± 2°
Module Fire performance	Type 2
Static Snow Load	5400 Pa / 113 psf
Static Wind Load	2400 Pa / 50 psf

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Website: www.sunsparkusa.com

Others: IEC 61215

- ❖ T/C 200
- ❖ DH 1000
- ❖ UV 60 kWh/m²
- ❖ MEL 2400Pa@3 Cycle
- ❖ PID N/A
- ❖ Field outdoor exposure N/A

SunSpark: DNV GL PVEL

- ❖ T/C 600
- ❖ DH 2000
- ❖ UV 90 kWh/m²
- ❖ DML 1K Cycle+TC50+HF10
- ❖ PID 196h
- ❖ Field outdoor exposure 1 year

GTM PV Module Reliability Scorecard

Items	Conditions	Power Change (%)	Name in top group
T/C	600 cycles	-4.54	
DH	2,000 hours	-2.33	x
MEL	1, 1,000 cycles at 1,440 pa 2, TC 50 3, HF 10	-1.07	x
PID	-1000V@192 hours	-0.82	x