

QUALITY  
RELIABILITY  
TRUE VALUE



**SunSpark**  
Technology Inc.

Buy American and Reduce Your Carbon Footprint

# MONO MODULE

**60 CELL PERC**  
**310W**



## Better Temperature Coefficient

Excellent temperature coefficient gives higher yield in the long term



## Low-light Performance

Outstanding performance in weak-light conditions



## PID Free

Excellent PID resistance



## Positive Tolerance

Positive tight power tolerance of +5W



## Quality Assurance

Double stage 100% EL inspection warranting defect-free products, with 8 high tech cameras to zoom in for a closer examination



## Durability And Weather Resistance

- Severe salt mist, ammonia & blown sand resistance for seaside, farm and desert environments.
- Certified for high snow(5400 pa) and wind (2400 pa) loads



01

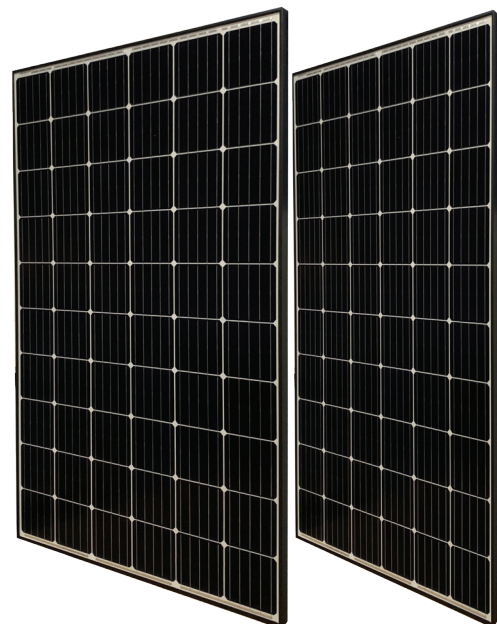
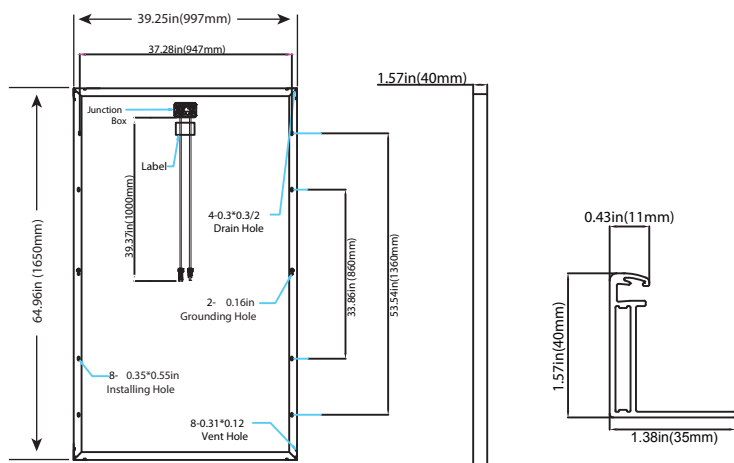
MADE IN CALIFORNIA



02

25 YEARS  
LINEAR WARRANTY  
12 YEARS  
WORKMANSHIP  
WARRANTY





# Mono Module

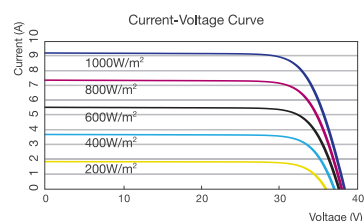
**60 CELL 310W**

## Electrical Specifications

SST-310M

|  |        |
|--|--------|
| Maximum Power(P <sub>max</sub> )         | 310W   |
| Power Tolerance                          | 0~+5W  |
| Module Efficiency                        | 18.84% |
| Maximum Power Current(I <sub>mp</sub> )  | 9.56A  |
| Maximum Power Voltage(V <sub>mp</sub> )  | 32.46V |
| Short Circuit Current (I <sub>sc</sub> ) | 10.1A  |
| Open Circuit Voltage (V <sub>oc</sub> )  | 40.1V  |

## IV-CURVE



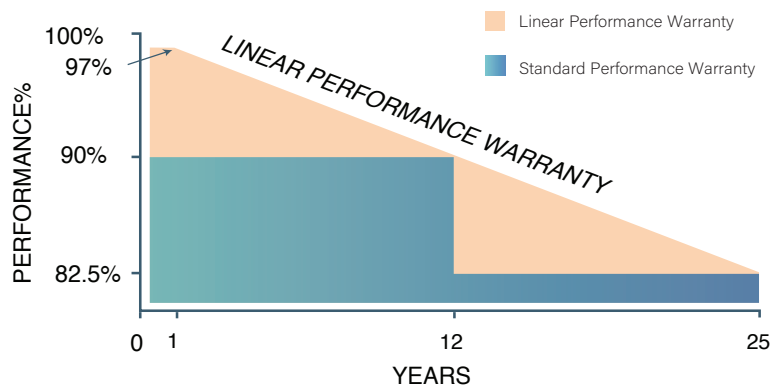
## Mechanical Data

|                            |  |
|----------------------------|--|
| 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/IP67rated,with bypass diodes                |
| Dimension                  | *64.96x39.25x1.57in.(1650x997x40mm)              |
| Output Cable               | 4mm <sup>2</sup> (EU)/12AWG(US), 39.37in(1000mm) |
| Weight                     | 42.8lbs(19.4Kg)                                  |
| Installation Hole Location | See Drawing Above                                |

## Characteristics

|   |                   |
|---|-------------------|
| Temperature Coefficient of Voc              | -0.28%/°C         |
| Temperature Coefficient of Isc              | 0.04%/°C          |
| Temperature Coefficient of P <sub>max</sub> | -0.37%/°C         |
| Nominal Operating Cell Temperature (NOCT)   | 45±2°C            |
| Module Fire performance                     | Type 2            |
| Static Snow Load                            | 5400 Pa / 113 psf |
| Static Wind Load                            | 2400 Pa / 50 psf  |
| Maximum System Voltage                      | 1500 VDC          |
| Maximum Series Fuse Rating                  | 20A               |

## Linear Performance Warranty



## Others: IEC 61215

## SunSpark: DNV GL PVEL

|                              |                                 |
|------------------------------|---------------------------------|
| ◆ T/C 200                    | ◆ T/C 600                       |
| ◆ DH 1000                    | ◆ DH 2000                       |
| ◆ UV 60 kWhm <sup>2</sup>    | ◆ UV 90 kWhm <sup>2</sup>       |
| ◆ MEL 2400Pa@3 Cycle         | ◆ DML 1K Cycle+TC50+HF10        |
| ◆ PID N/A                    | ◆ PID196h                       |
| ◆ Field outdoor exposure N/A | ◆ Field outdoor exposure 1 year |

## GTM PV MODULE RELIABILITY SCORECARD

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

