

MONOCRYSTALLINE

SOLAR PV MODULES

60 Cells | 270-310 WATT

This module is ideal for large commercial applications, demonstrating financial astuteness and environmental stewardship.

PRODUCT FEATURES



POSITIVE POWER TOLERANCE

Count on sunfuel to deliver all the watts you pay for with a positive only power tolerance of +3%.



5 BUSBAR TECHNOLOGY

5 BB technology provides low resistance path to the flow of electrons even in low light conditions resulting better output power.



HIGH PERFORMANCE

This module uses an advanced surface texturing & ARC process to increase light absorption and improve efficiency.



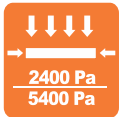
PID RESISTANT

Each Sunfuel module is manufactured in state of the art manufacturing environment using PID free raw material resulting high power output and less degradation.



LOW - LIGHT PERFORMANCE

Anitmony Free low iron ARC textured glass and textured 5 BB solar cell combines together to perform excellent in Low Light conditions.



HIGH LOAD RESISTANT

Each Sunfuel module withstand wind load [2400 Pa] and snow load [5400 Pa].



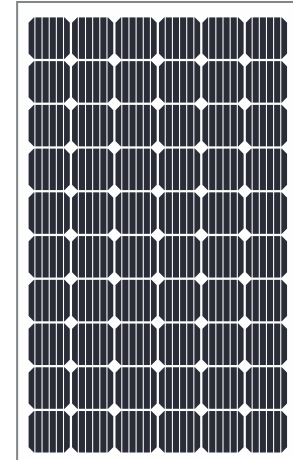
RELIABLE

25-year limited warranty on power output and 10-year limited warranty on materials or workmanship.



ELECTROLUMINESCENCE TESTING

Dual stage EL testing assures quality analysis by recognizing real time cell breakage, surface cracks and fissures of a micron scale.



APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop residential, commercial and industrial roof top installations
- Off-grid residential systems
- Solar pumping applications
- Solar E-rickshaw

SUNFUEL TECHNOLOGIES OFFERS THE BEST COMBINED POWER AND PRODUCT WARRANTY

SUNFUEL PRODUCT & LINEAR PERFORMANCE WARRANTY

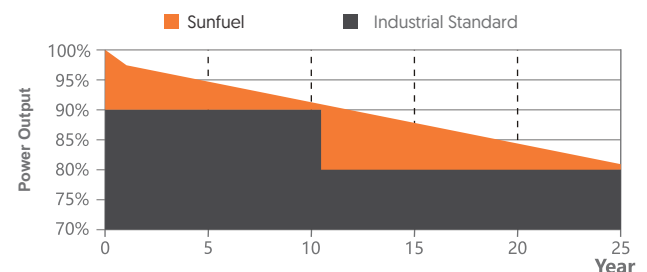
Product Warranty

10 Years

Performance Warranty *



with 2.5% for 1st year degradation and 0.67% from year 2 to year 25



*Refer to sunfuel's warranty document for terms and conditions. .

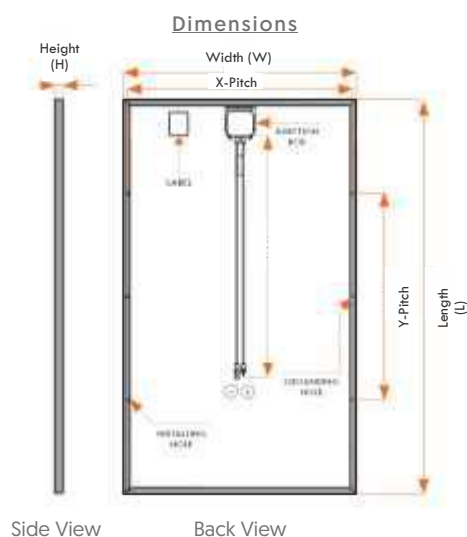


TECHNICAL DATA

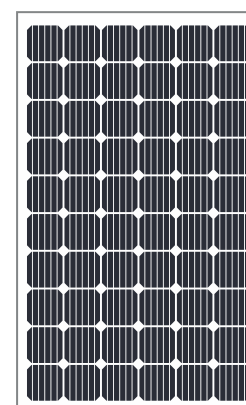
ELECTRIC PARAMETERS

Electrical Parameters at Standard Test Conditions (STC)

| MODULES (SFTI) | 60M 270 | 60M 275 | 60M 280 | 60M 300 | 60M 305 | 60M 310 |
|----------------------------------|-----------------|---------|---------|---------|---------|---------|
| Pmax [watts] (nominal) | 270 | 275 | 280 | 300 | 305 | 310 |
| Voltage at Pmax Vmp [V] | 31.47 | 31.80 | 31.97 | 33.25 | 33.45 | 33.85 |
| Current at Pmax Imp [A] | 8.58 | 8.65 | 8.76 | 9.03 | 9.12 | 9.16 |
| Open-circuit Voltage Voc [V] | 36.96 | 37.13 | 37.31 | 38.76 | 39.12 | 39.50 |
| Short Circuit Current Isc [A] | 9.11 | 9.15 | 9.25 | 9.53 | 9.61 | 9.65 |
| Module Efficiency [%] | 16.58 | 16.89 | 17.20 | 18.43 | 18.73 | 19.04 |
| X - Pitch [mm] | 947 | | | | | |
| Y - Pitch [mm] | 800 | | | | | |
| Module Dimensions L x W x H [mm] | 1645 x 990 x 35 | | | | | |
| Module Weight [kg] | 18.20 | | | | | |



Note: All dimensions are in mm only



CONSTRUCTION MATERIALS

| | |
|-------------------|---|
| Junction Box | IP67, 4 Terminal with 3 bypass diodes |
| Application Class | CLASS A (Safety class II) |
| Front Covers | High transmission, low Iron, tempered glass |
| Cells | 60 Nos., Monocrystalline |
| Cell Encapsulant | EVA (Ethylene Vinyl Acetate) |
| Back Cover | Composite film (Backsheet) |
| Frame | Anodized aluminium frame with twin wall profile |
| Mounting Holes | Mounting hole 4 nos. (oval shape (12mm x 9mm) and 6mm Grounding hole 2 nos. |

TEMPERATURE COEFFICIENT

| | |
|--|--------------------------|
| Tc of Open Circuit Voltage [β] | - 0.32 \pm 0.01 % / °C |
| Tc of Short Circuit Current [α] | 0.03 \pm 0.02% / °C |
| Tc of Power [γ] | - 0.43 \pm 0.02% / °C |
| Maximum System Voltage [V] | 1000 V |
| NOCT[°C] | 44 °C \pm 2 °C |
| Temperature Range | - 40 °C to + 85 °C |

PACKAGING INFORMATION

2 Modules in 1 Box

DISCLAIMER: Specification included in the datasheet are subject to change without prior notice owing to continuous innovation on the Product Development and R&D activities. Sunfuel reserves the right to make any adjustment to the information.