



MONOCRYSTALLINE SOLAR PV MODULES | 72 Cells | 300-310 WATT

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



ENGINEERING EXCELLENCE
High module efficiency for an outstanding balance of size and weight to power and performance.



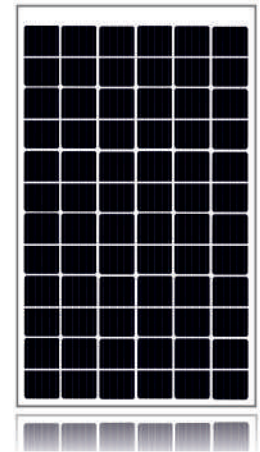
RELIABLE
25-year limited warranty on power output and 10-year limited warranty on materials or workmanship.



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



HIGH PERFORMANCE
This module uses an advanced surface texturing process to increase light absorption and improve efficiency

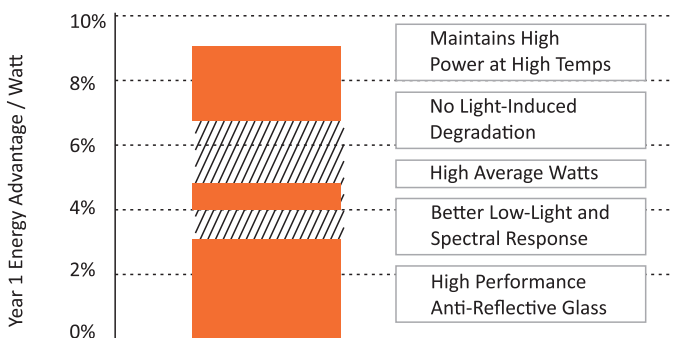


Applications

- ★ 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

Product Features

- ★ 72 cell configuration with wattage ranging from 300 to 310W
- ★ High fill factor for improved energy conversion efficiency
- ★ Cells sorted by power and current to minimize mismatch losses in the field
- ★ Electroluminescence tested for microcracks
- ★ Highly reliable IP67 rated junction box
- ★ MC4 compatible cable connector
- ★ Torsion and corrosion resistant with anodized aluminium frame
- ★ TPE back sheet for high resistance to moisture ingress & UV degrades
- ★ Enhanced reliability through use of distinctive encapsulant and back sheet
- ★ Ultra-soft interconnect with stress relief for enhanced reliability
- ★ Optimized edge clearance for high quality rugged design



About Sunfuel Technologies

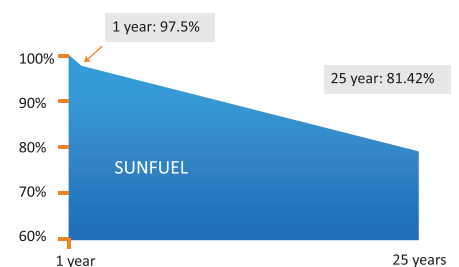
- ★ Eliminates need for expensive 3rd party insurance
- ★ Sunfuel has a heritage of state of the-art technology and stringent quality processes

SUNFUEL TECHNOLOGIES OFFERS THE BEST COMBINED POWER AND PRODUCT WARRANTY

Sunfuel warranty and certifications

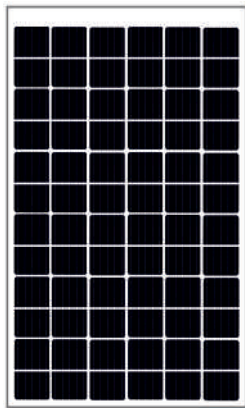
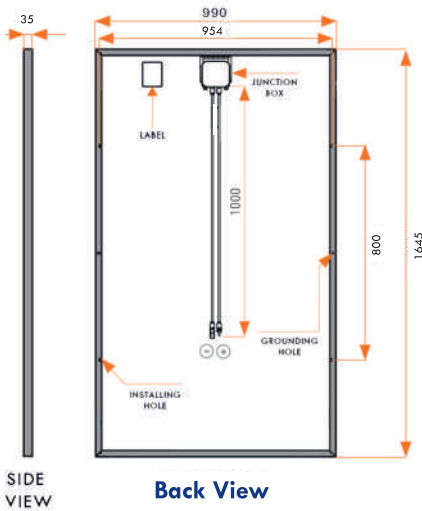
Product Warranty | 10 years
 Performance Warranty* | Linear power warranty for 25 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 25

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



Technical Data

DIMENSIONS



Front View

Note: All dimensions are in mm only

PACKAGING INFORMATION

2 Modules in 1 Box

ELECTRICAL PERFORMANCE

Electrical Parameters at Standard Test Conditions (STC)

MODULES	SFTI 72M 300	SFTI 72M 305	SFTI 72M 310
Pmax (watts) (nominal)	300	305	310
Voltage at Pmax Vmp (V)	39.90	40.14	40.62
Current at Pmax Imp (A)	7.52	7.60	7.63
Open-circuit Voltage Voc (V)	46.51	46.94	47.40
Short Circuit Current Isc (A)	7.95	8.01	8.04
Module Efficiency (%)	18.43	18.73	19.04

CONSTRUCTION MATERIALS

Module Dimensions L x W x H (mm)	1645 x 990 x 35
Weight (kg)	18.20
Junction Box	IP67, 4 Terminal with 3 bypass diodes
Application Class	CLASS A (Safety classII)
Front Covers	High transmission, low Iron, tempered glass
Cells	72 Nos., mono crystalline
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Cover	Composite film
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 COEFFICIENTS

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



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