



# MONOCRYSTALLINE SOLAR PV MODULES | 36 Cells | 45-90 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.



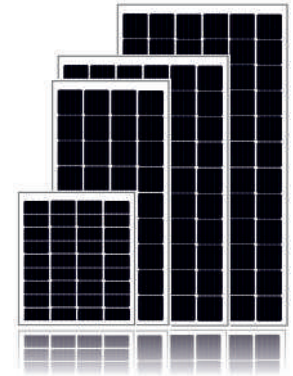
**RELIABLE**  
25-year limited warranty on power output and 5-year limited warranty on materials or workmanship.



**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

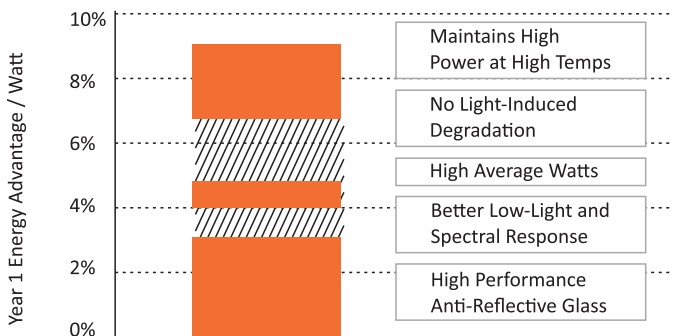


## Applications

- \* Off-grid residential systems
- \* Solar street light applications
- \* Domestic Lighting System
- \* Railway Signaling

## Product Features

- \* 36 cell configuration with wattage ranging from 45 to 90W
- \* 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 IP65 rated junction box
- \* 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

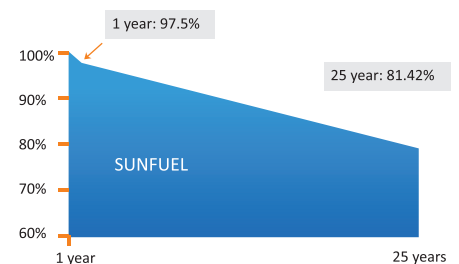
- \* Eliminates need for expensive 3rd party insurance
- \* Sunfuel has a heritage of state of the-art technology and stringent quality processes

## SUNFUEL TECHNOLOGIES OFFERS THE BEST COMBINED POWER AND PRODUCT WARRANTY

### Sunfuel warranty and certifications

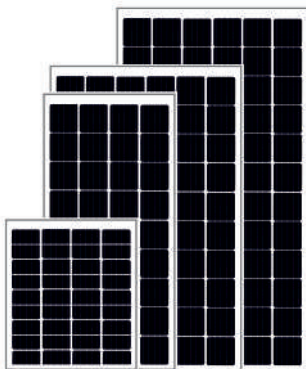
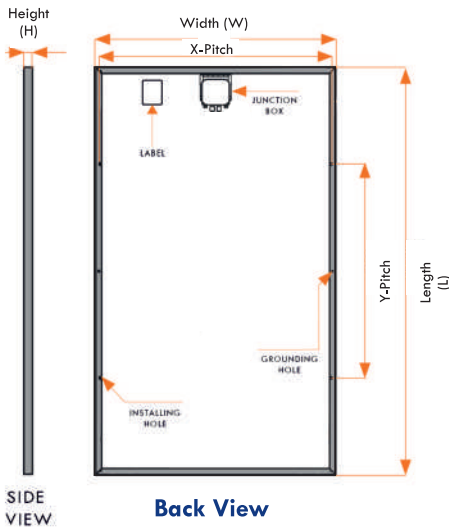
Product Warranty | 5 years  
 Performance Warranty\* | Linear power warranty for 25 years with 2.5% for 1st year degradation and 0.67% from year 2 to year 25

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



# Technical Data

## DIMENSIONS



Note: All dimensions are in mm only

## PACKAGING INFORMATION

Individual packing, 5 modules in  
1 master carton

## ELECTRICAL PERFORMANCE

Electrical Parameters at Standard Test Conditions (STC)

MODULES	SFTI 36M 45	SFTI 36M 60	SFTI 36P 75	SFTI 36M 90
Pmax (watts) (nominal)	45	60	75	90
Voltage at Pmax Vmp (V)	20.00	20.00	19.95	19.96
Current at Pmax Imp (A)	2.25	3.00	3.76	4.51
Open-circuit Voltage Voc (V)	23.36	23.33	23.26	23.26
Short Circuit Current Isc (A)	2.40	3.19	3.95	4.77
Module Efficiency (%)	15.74	16.40	16.96	17.24
Module Dimensions (L x W x H)	430 X 665 X 35	550 X 665 X 35	665 X 665 X 35	785 X 665 X 35
X-Pitch	632	632	632	632
Y-Pitch	215	275	332.5	392.5
Module Weight (KG)	3.0	4.2	5.0	5.8

## CONSTRUCTION MATERIALS

Junction Box	IP65, 3 Terminal
Application Class	CLASS A (Safety classII)
Front Covers	High transmission, low Iron, tempered glass
Cells	36 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 ( $\beta$ )	-0.32 $\pm$ 0.01 % / $^{\circ}$ C
Tc of Short Circuit Current ( $\alpha$ )	0.03 $\pm$ 0.02% / $^{\circ}$ C
Tc of Power ( $\gamma$ )	-0.43 $\pm$ 0.02% / $^{\circ}$ C
Maximum System Voltage (V)	1000 V
NOCT( $^{\circ}$ C)	44 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C
Temperature Range	- 40 $^{\circ}$ C to + 85 $^{\circ}$ C



For sales, service and other enquiries,  
email us: [info@sunfueltechnology.com](mailto:info@sunfueltechnology.com)

[www.sunfueltechnology.com](http://www.sunfueltechnology.com)  
Call: +91-9811818665, 011-47552447