



## Monocrystalline Solar Module

### PMS190W

**36 CELL**

Mono Crystalline Module

**19.16%**

Maximum Efficiency

**190W**

Power Output Range

**0/+5%**

Positive Power Tolerance



### Function Features



#### PID Resistant

Advanced cell technology and qualified materials lead to high resistance to PID.



#### High Efficiency

High module conversion efficiency (up to 19.16%), through innovative manufacturing technology.



#### Severe Weather Resilience

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



#### Low-light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



#### Higher Quality Assurance

100% EL test before and after lamination, and finished products EL test, providing higher quality assurance.



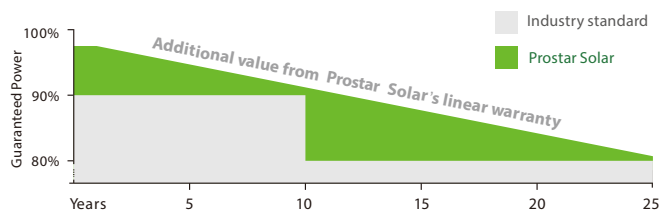
#### Maximized Energy Harvest

Impedance matching technology eliminates mismatch losses, more power from each module bin.

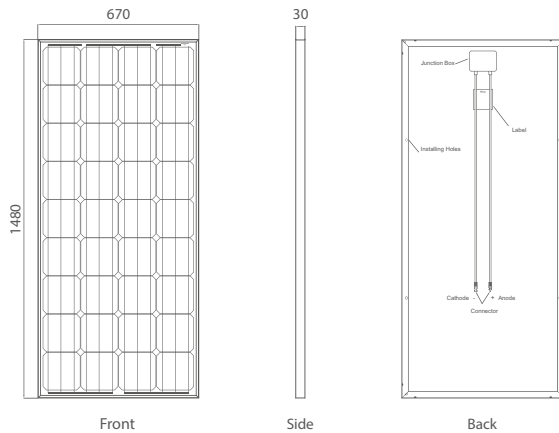
### LINEAR PERFORMANCE WARRANTY

10-Year Product Warranty

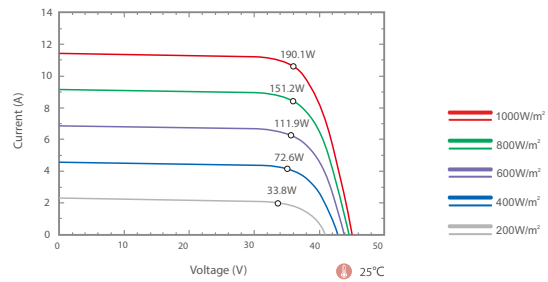
25-Year Linear Power Warranty



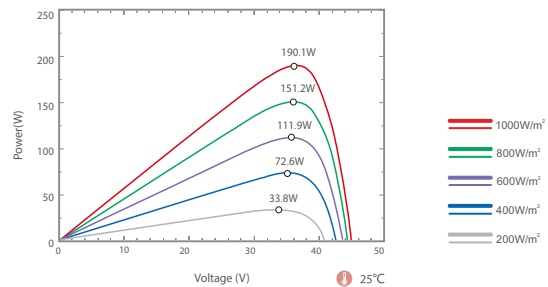
## Engineering Drawings



## Current-Voltage Curves



## Power-Voltage Curves



## Technical Specifications

Model	PMS190W	
<b>Electrical Characteristics</b>		
	<b>STC</b>	<b>NOCT</b>
Maximum Power (Pmax)	190Wp	140Wp
Maximum Power Voltage (Vmpp)	18.1V	16.9V
Maximum Power Current (Impp)	10.52A	8.36A
Open Circuit Voltage (Voc)	22.5V	21.1V
Short Circuit Current (Isc)	11.40A	9.15A
Power Tolerance(Positive)	5%	
Module Efficiency STC	19.16%	
Operating Temperature Range	-40°C to +85°C	
Maximum System Voltage	1000V	
Series Fuse Rating	15A	
Temperature Coefficient of Pmax	-0.40 %/°C	
Temperature Coefficient of Voc	-0.30 %/°C	
Temperature Coefficient of Isc	0.05 % / °C	
Nominal Operating Cell Temperature(NOCT)	45±2°C	
<b>Mechanical Characteristics</b>		
Cell Type	Monocrystalline 156mm	
Cell Number	36 (4x9)	
Dimensions (mm)	670x1480x30	
Weight(Kgs)	10.00	
Front Glass	3.2 mm, High Transmission, Low Iron, Tempered Glass	
Frame Type	Anodized Aluminium Alloy	
Junction Box Protection Class	IP 67 Rated	
Connector Type	MC4	
Output Cables	2.5 mm <sup>2</sup> , Length:900 mm	

STC: Irradiance 1000W/m<sup>2</sup>

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

\* Remarks: Products specifications are subject to change without notice.