



RG-SOLAR-PL-50-18-P

50W-18V Solar Panel Polycrystalline



High Conversion Efficiency

Through outstanding battery technology and leading manufacturing technology, a cell conversion efficiency of 18.6% has been achieved.



Excellent Low Light Performance

In the early morning, evening, cloudy and other conditions with insufficient light, the module exhibits excellent low-light performance.



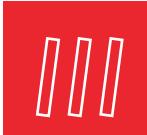
Current Classification Process

The components adopt the current binning process, which effectively reduces the loss caused by mismatch by up to 2% and maximizes the output power of the system.



PID Resistant

Improved battery technology and selected packaging materials make Ranger solar modules have good pid resistance.



Positive Tolerance

5% positive tolerance peak power output to ensure component reliability.



Super Strong Wind Pressure & Snow Pressure Tolerance

The components have strong compressive resistance and can withstand wind pressure of up to 3000 Pa and snow pressure of 5400 Pa.



Electrical Specifications	
Model	Poly Crystalline Solar Panel
Power Peak	50W
Power Peak Voltage	18V
Power Peak Current	2.78A
Open Circuit Voltage	21.24V
Short Circuit Current	3.12A
Conversion Efficiency	18.6%
Size	670*535*30*25mm
Glass	Tempered glass with low iron content / 3.2mm
Cells	Polycrystalline / 156.75mm * 156.75mm
Encapsulation	EVA ethylene vinyl acetate copolymer
Aluminum Frame Process	Anodized aluminium / Color : Silver
Junction Box	IP67 waterproof rating
The Maximum System Voltage	DC 1000V
The Maximum Fuse Rating	15A
The Maximum Reverse Current	15A
Operating Temperature	-40°C~85°C
Maximum Frontal Static Load (Snow Load)	5.4 KPa
The Maximum Static Load Back Surface (Wind Load)	2.4 KPa
Hail Impact Test (Hail Diameter/Impact Velocity)	25mm / 23m/s

Dimension Drawings (mm)

*All specification is subject to change without prior notice.

