

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 | |
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| Model | Poly Crystalline Solar Panel |
| Power Peak | 50W |
| Power Peak Voltage | 18V |
| Power Peak Current | 2.78A |
| Open Circuilt Voltage | 21.24V |
| Short Circuilt 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.



