



## ALVOLTA ECLIPSE 12V 50W SOLAR PANEL

ALV-050SP

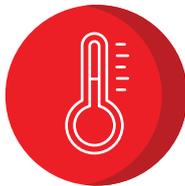
### Key Features:



Up to 20.6% module efficiency



Weatherproof, IP65 sealed junction box



Low voltage-temperature coefficient



Sturdy, anodized aluminium frame



Pre-wired 900mm cable with MC4 connectors

### Suitable for:



**5** YEAR  
PANEL  
WARRANTY

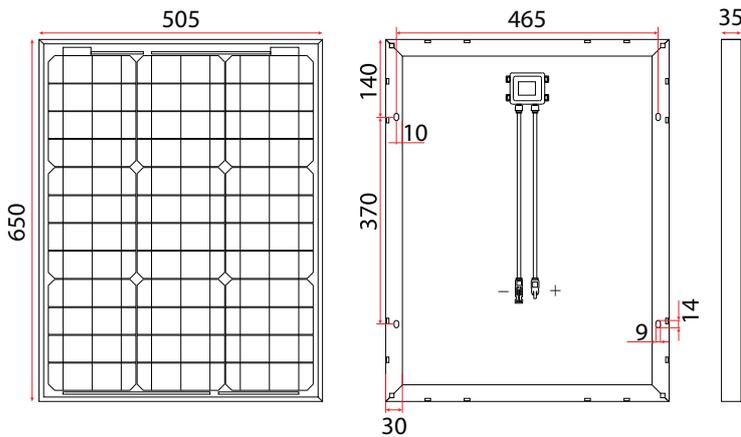
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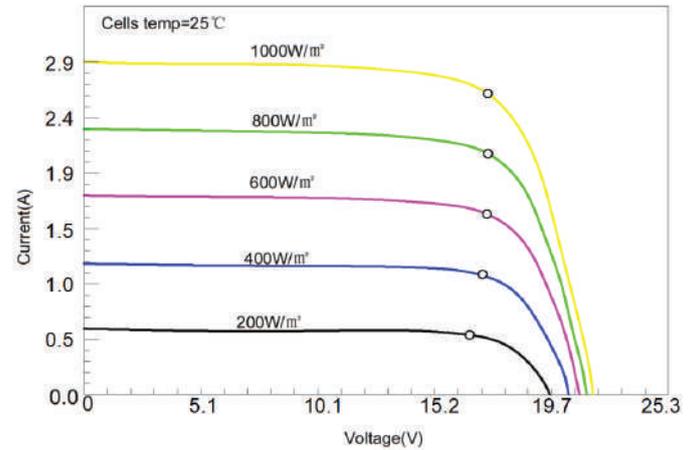
### Electrical Data:

Maximum Power	50W
Optimum Operating Voltage	18.0V
Optimum Operating Current	2.78A
Open Circuit Voltage	21.2V
Short Circuit Current	2.95A
Module Efficiency	20.6%
Maximum System Voltage	600V DC
Power Tolerance	±3%

### Module Diagram:



### IV-Curve:



### Mechanical Data:

Solar Cells	Monocrystalline 156mm Cells
No. of Cells	36 (3 x 12)
Dimensions	650 x 505 x 35mm
Weight	3.9kg
Frame	Anodized Aluminium
Junction Box	IP65 Rated
Connectors	MC4 Style
Output Cables	2.5mm <sup>2</sup> , 500mm

### Thermal Data:

Operating Temperature Range	-40°C to +85°C
Temperature Coefficient (Pmax)	-0.43%/°C
Temperature Coefficient (Voc)	-0.34%/°C
Temperature Coefficient (Isc)	-0.05%/°C

2011/ 65/ EU and amending directive (EU)2015/863

EN IEC 62368-1:2020+A11:2020

\*All data and specifications provided in this datasheet are tested under standard test conditions, and may deviate marginally from actual values. Alvolta and its associates reserve the right to make modifications to the provided information without notice. Alvolta maintains the goal to supply customers with the most recent information regarding its products.