ALVOLTA
BUILT FOR POWER



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 500mm cable with MC4 connectors

Suitable for:

5 YEAR PANEL WARRANTY

ALVOLTA
BUILT FOR POWER

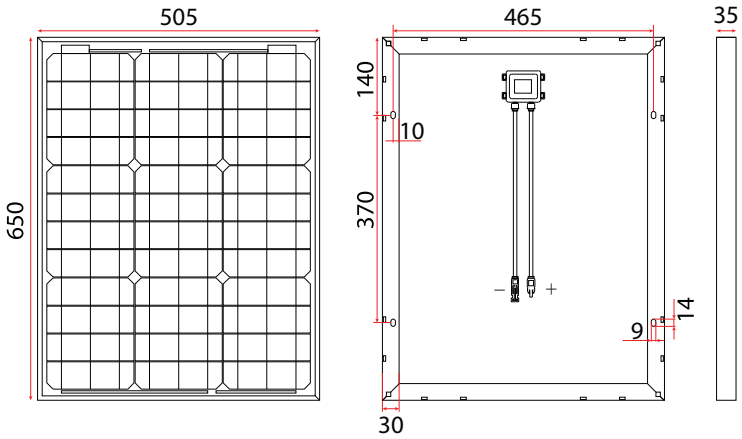
ALVOLTA ECLIPSE 12V 50W SOLAR PANEL

ALV-050SP

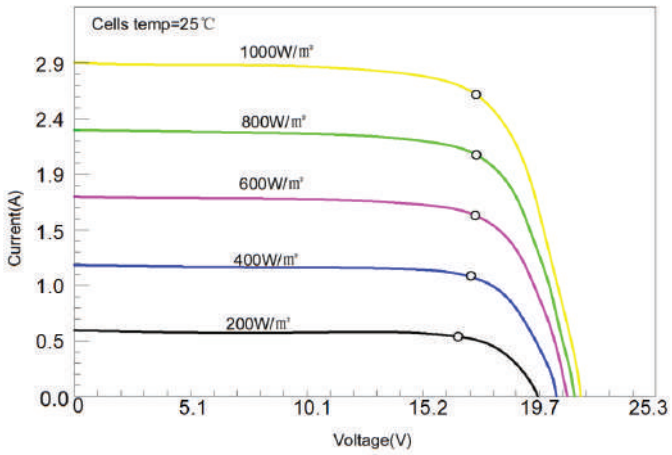
Electrical Data:

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	2.5mm², 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

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

CE 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.