

# SGM12190W

High Efficiency Solar Modules

ALVOLTA



## Specifications

Maximum power(Pmax)	190W
Open-circuit voltage(Voc)	23.4
Voltage at Pmax(Vmp)	19.8
Short-circuit current(Isc)	10.36
Current at Pmax(Imp)	9.60
Cells Efficiency(%)	20.60%
The maximum system voltage	1000VDC(IEC)
Power temperature coefficient	-0.43%/°C
Voltage temperature coefficient	-0.34%/°C
Current temperature coefficient	0.05%/°C
Output power tolerance	±3%
Operating Temperature	-40~85°C

Alvolta rigid solar panels are made using high quality monocrystalline, SolarWorld cells. Alvolta provide a full range of rigid monocrystalline solar panel modules ranging from 10W - 190W. They are designed for charging 12V batteries, for example in vehicles and boats, motor homes, caravans, camping, marine or any other systems with a 12V battery or battery bank.

Solar panels can be utilized to extend battery run time when powering multiple accessories. A number of factors that can influence this include: the time of year, weather conditions, battery capacity and how long you run your appliances. It's important to oversize your solar array (where space allows) so that on a good day your solar panels will be able to fully charge your batteries and keep your loads running whilst free camping.

### Features:

- Aesthetic black frame
- IP65 sealed, weatherproof, multi-functional junction box gives high level of safety
- A sturdy, anodized aluminium frame allows modules to be easily roof mounted with a variety of standard mounting systems
- A Grade Solar cells
- Framed with a strong, robust and corrosion resistant aluminium frame
- Up to 20.04% module efficiency
- Low voltage-temperature coefficient enhances high-temperature operation
- 25 Year 80% warranty on power output and performance
- 5 Year product warranty on materials
- Pre wired 900mm cable with MC4 style connectors

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