

VALEN 300W SOLAR PANEL

SP VMP300

- Valen Solar Panels are designed for industrial applications and cater for a wide range of stand-alone power projects.
- High-quality, customisation and complete system integration, with the full range of Valen products, have meant the Valen Solar Panels have fast become the solar panel of choice for critical solar applications.
- Delivering reliable performance over time with world-class manufacturing of MONO PERC Crystallin, providing a fine blend of high performance and robust design.
- A dust-free manufacturing environment coupled with stringent quality control and integrity in the manufacturing process provides long life and enhanced cell performance.
- Having years of experience with the Valen Solar Panels has enabled Valen to offer a 25-year output warranty. Manufactured to Valen's stringent quality standards, the Valen Solar Panels have and will continue, to deliver peace of mind for remote and stand-alone solar applications.





SP VMP300

SOLAR PANEL SPECIFICATIONS

Electrical Characteristics: Standard Test

Maximum Power - Pmax	300W
Power Tolerance	0/+5%
Open Circuit Voltage - Voc	37V
Short Circuit Current - Isc	9.6A
Optimum Operating Voltage - Vmp	31V
Optimum Operating Current - Imp	9.31A
Module Efficiency	20.3%

Standard test: Irradiance 1000W/m²; AM 1.5; cell temperature 25°C

Electrical Characteristics: Nominal Operating Cell Temperature

Maximum Power at NMOT(Pmax)	278.2W
Short Circuit Current - Isc	9.17A
Open Circuit Voltage - Voc	38.7V
Optimum Operating Voltage - Vmp	32.0V
Optimum Operating Current - Imp	8.69A

Nominal operating cell temperature test: irradiance 28.4 800W/m²; wind speed 1m/s; cell temperature 45°C; ambient temperature 20°C

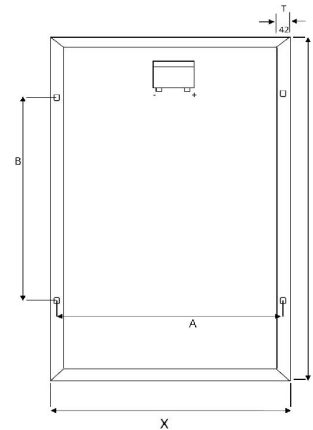
Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2°C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Maximum Ratings

Maximum System Voltage	1500 V DC (IEC)
Series Fuse Rating	20A

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Mechanical Characteristics

Dimensions	1640(L) x 990(W) x 35(H)
Weight	21kg
Frame	Anodised aluminium alloy
Front Glass	3.2 mm (0.13 inches) tempered glass
Cells	MONO PERC Crystalline, 157 x 157mm±0.5mm.
Junction Box	IP68 rated (3 bypass diodes)
Cable	4.0 mm ²
Connector	MC4 EV02, Cable 01S

Specifications subject to change without notice.