

W2100

SERIES

Webel Solar modules are made of high efficiency mono-crystalline silicon solar cells. Every single cell is tested and electrically matched to maximize output for commercial and domestic applications. The solar photovoltaic modules are manufactured according to the strict requirements of international quality standards.

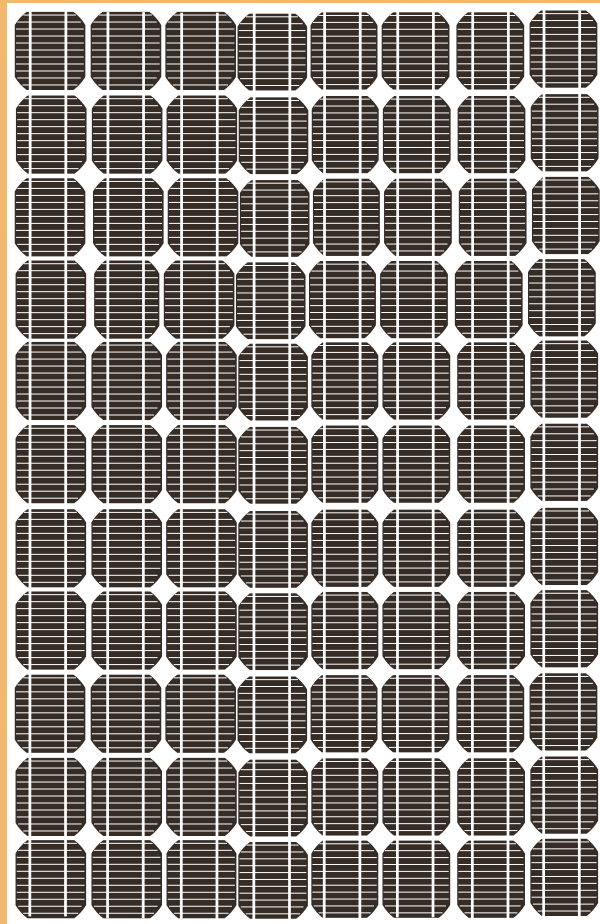
The string is laminated between sheets of ethyl vinyl acetate (EVA) for moisture free protection, UV stability and electrical insulation.

Low iron, high transmittivity glass is used for strength and high-power output.

A high quality back tedlar (TPT) provides mechanical protection and electrical insulation.

The laminates are framed with a strong, robust and corrosion-resistant aluminum frame with multiple mounting holes for ease of installation as per customer's requirement.

All modules are equipped with by-pass diodes so that the modules will function even in partially shaded. Other feature includes: weather proof-high resistant to hail, moisture, wind speed and other environmental factors – with the ability to operate in temperatures ranging from -45°C to 95°C – with relative humidity levels of up to 100%.

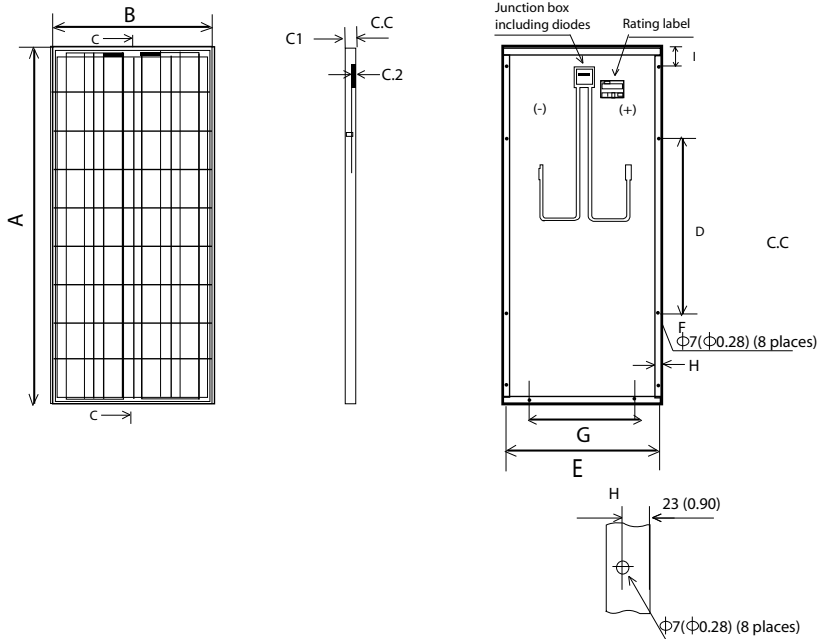


Electrical Specifications (Standard Test Conditions: 1000 W/m², 25 °C AM 1.5)

Maximum Power	Pm (Wp)	210	215	220	225
Short Circuit Current	Isc (Amps)	5.25	5.32	5.35	5.40
Open Circuit Voltage	Voc (Volts)	54.2	54.3	54.5	54.8
Current at Maximum Power	I _{mp} (Amps)	4.80	4.90	4.97	5.05
Voltage at Maximum Power	V _{mp} (Volts)	43.8	43.9	44.3	44.6
Tolerance *		±5%			

*±5% tolerance is on maximum power, ±3% tolerance on maximum power is also available as per customers' order. Tolerance on all other electrical parameter is ±10%

Mechanical Specifications:



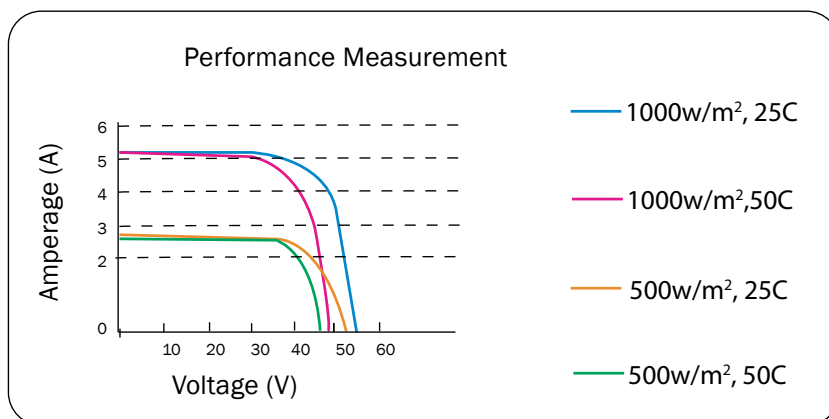
Module Type	W2100	
Dimension	2mm/ ($\pm 0.078''$)	
A	(mm/ inches)	1455/ 67.28
B	(mm/ inches)	1050/ 41.33
C1	(mm/ inches)	42/ 1.65
C2	(mm/ inches)	31/ 1.22
D	(mm/ inches)	800/ 31.49
E	(mm/ inches)	1008/ 39.61
F	(mm/ inches)	7 Φ
G	(mm/ inches)	800/ 31.49
I	(mm/ inches)	32/ 1.26
Weight (Kgs)	21 (approx)	

Electrical / Thermal Parameters

Cell Type	Monocrystallin Silicon
Circuit interconnection	88 nos. of (125 x 125) mm cell, connected in series
Max System Voltage**	1000 V
Series Fuse Rating	12 Amps
NOCT	47°C
Voltage temperature coefficient $\beta(V_{oc})$	-0.34% /°C
Current temperature coefficient $\alpha(I_{sc})$	0.05% /°C
Power temperature coefficient $\gamma(P_{max})$	-0.45% /°C

** Modules are also produced which are suitable for a system voltage of 715 Volts as per customer requirement and also of 600 Volts for USA standard.

IV-Curve



Warranty

Webel Solar W2100 module carries 25 years limited warranty on power output as per international standards.

Certifications

Our modules are certified to UL 1703, IEC 61215 edn2, IE 61730