



Webel SOLAR



- > Module efficiency $\geq 14.5\%$ ensures optimum performance even in diffused light conditions
- > 25 years warranty* on electrical performance
- > Calibration modules for output measurement regularly tested at Fraunhofer ISE
- > Integrated manufacturing of cells and modules in one production line guarantees optimum performance
- > ISO 9001:2008 certification ensures consistent product quality
- > Modules are approved for IEC/EN 61215, IEC/EN 61730 and UL 1703 standards from various reputed institutes like TUV & CSA INTERNATIONAL
- > $\pm 5\%$ output tolerance**

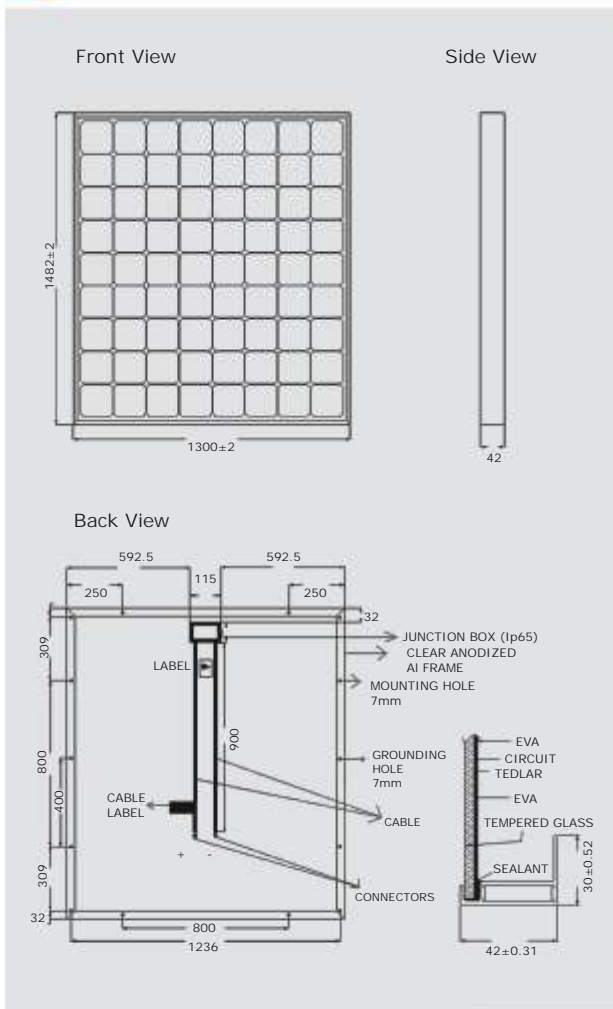
W2800 Series

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

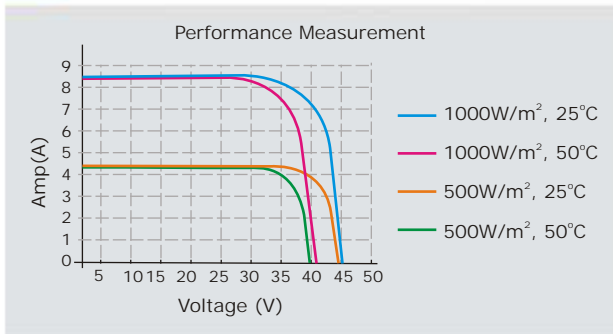
Maximum Power	Pmax (Wp)	280	285	290	295
Short Circuit Current	Isc(Amp)	8.53	8.56	8.6	8.65
Open Circuit Voltage	Voc(Volt)	44.75	45	45.2	45.3
Current at Maximum Power	Imax(Amp)	7.94	8	8.05	8.1
Voltage at Maximum Power	Vmax(Volt)	35.5	35.7	36	36.4
Maximum System Voltage		1000 Volt			
Tolerance**		+/-5%			

** $\pm 3\%$ tolerance on maximum power also available on request.

Drawing (Dimensions in mm)



IV - Curve



Certifications



Mechanical Specification

W2800

Height x Width x Depth(H x W x D)	(1482 x 1300 x 42)mm (58.35 x 51.18 x 1.63)in
Weight	25 Kg (55.1 lbs)
Junction box	IP 65 rated junction box with 4 bypass diode
Cable	Solar cable 900mm length with 4.0 mm ² double insulated cable, multicontact connector
Front glass	4mm (0.16 in) thickness, Low iron, toughened & tempered High transmittance
Solar cells	72 x Monocrystalline Si 6" (156mm x 156 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	Tedlar Composite film, clear and white colour
Frame	Anodized aluminium frame with twin wall profile

Temperature Coefficients

Coefficient of Current	α	0.05% / °C
Coefficient of Voltage	β	-0.34% / °C
Coefficient of Power	γ	-0.45% / °C

Permissible Operating Conditions

Temperature Range	(-40 °C To + 85 °C)
Maximum System Voltage	1000 V
Maximum surface load capacity	Tested up to 2400Pa according to IEC 61215
Resistance against hail	Maximum diameter of 25mm with impact speed of 82.8 Km/h

Guarantees

Product Warranty	5 years
*Performance Warranty	Guaranteed output of 90% for 10 years and 80% for 25 years
Approvals & Certificates	IEC 61215 Edition II, IEC 61730, UL 1703

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