


Silverpoint⁺ MSC solar panels


autarco


Autarco's Silverpoint™ solar panels are designed for maximum efficiency and reliability with an extended 30 year power output warranty. The use of back-contact solar cells entirely removes the need for busbars, reducing shade losses and delivering an aesthetically superior design with a sleek modern appearance. With a re-inforcing copper conductive layer and backsheet Silverpoint™ modules can endure loads up to 5400Pa.

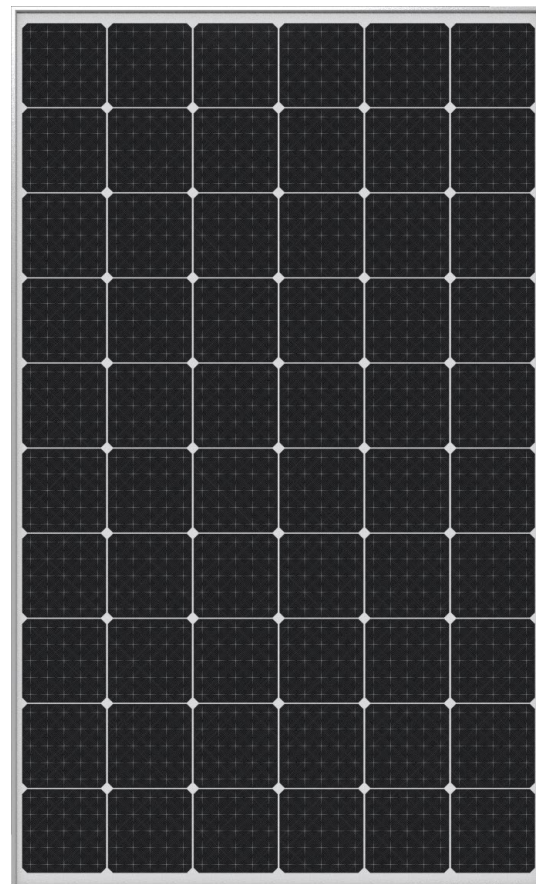
30 Insured linear 30-year performance guarantee up to 80.2%

20 High power, 20Wp more output than traditional panels

 No busbars, improving performance and aesthetics, reducing shade losses

 Solder free, removing the risk of micro-cracks or short circuits

 Copper conductive layer and backsheet deliver the durability of a glass-glass module at just 18.5kg



QUALITY CERTIFICATES

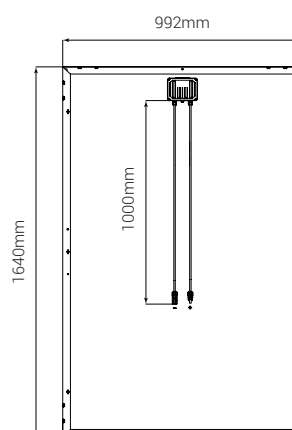
- ◆ IEC 61215, IEC61730, VDE, CE, MCS, CEC AU, UL1703
- ◆ ISO 9001, 14001, 18001 - CE
- ◆ ZRN foundation, PV-Cycle



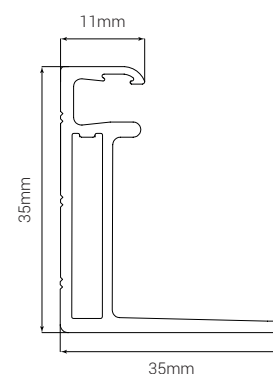
CELLS AND CONSTRUCTION

Cells	60 cells (157 x 157mm) in a 6 x 10 matrix connected in series
Junction box	IP67 box with 1000mm 4mm ² cable fitted with MC4 connectors
Diodes	Three by-pass diodes
Construction	Front: 3.2mm glass Back: Composite film + copper foil Encapsulant: EVA
Frame	Anodized aluminum (silver)
Weight	18.5kg
Dimensions	1640 x 992 x 35mm

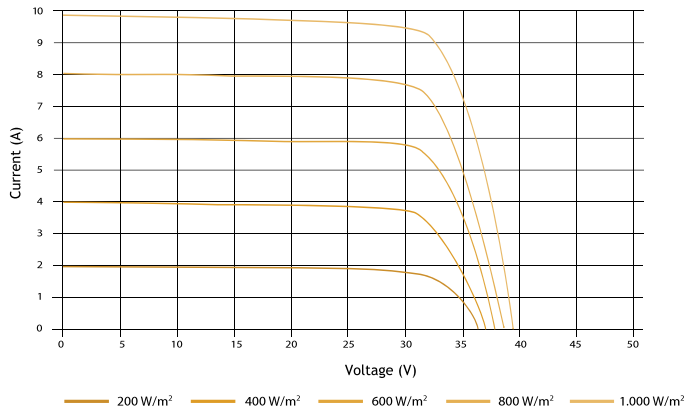
Panel



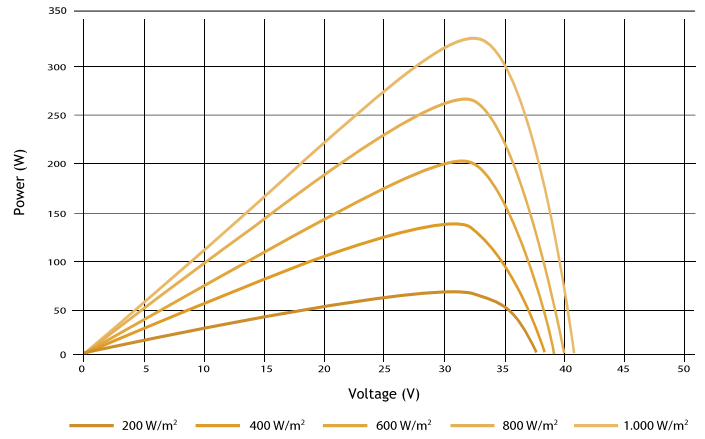
Frame cross section



IV CURVE



POWER CURVE



ELECTRICAL CHARACTERISTICS

		S1.MSC315	S1.MSC320	S1.MSC325	S1.MSC330	S1.MSC335
Nominal power output (Wp)	(Pmax)	315	320	325	330	335
Power output tolerance (W)	(ΔPmax)	0/+3%	0/+3%	0/+3%	0/+3%	0/+3%
Open circuit voltage (V)	(Voc)	39.40	39.60	39.80	40.00	40.20
Short circuit current (A)	(Isc)	10.28	10.36	10.44	10.52	10.62
Max. power voltage (V)	(Vmp)	32.20	32.40	32.60	32.80	33.00
Max. power current (A)	(Imp)	9.79	9.88	9.97	10.07	10.16
Panel efficiency (%)	(η)	19.4	19.7	20.0	20.3	20.6

Electrical values at standard test conditions (STC): irradiation 1000W/m², air density AM1.5 and cell temperature 25°C
 Max string voltage: 1000V, max series fuse: 15A

TEMPERATURE CHARACTERISTICS

Isc (α)	+0.06% / °C
Voc (β)	-0.28% / °C
Pmax (γ)	-0.36% / °C
Nominal cell temperature	43°C (+/- 2°C)

OTHER CHARACTERISTICS

Operating temperature	-40°C to 85°C
Max. load (front / wind)	5400 / 2400 Pa
Ammonia and salt resistance	IEC 62716, 61701
Max. hailstone impact	25mm @ 23m/s
Standard packaging	30 pcs
Quantity per 40'HQ container	840 pcs
Product warranty	10 years

The specifications contained in this datasheet may deviate slightly from our actual products due to on-going product improvement and are subject to change at any time without prior notice.

