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# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

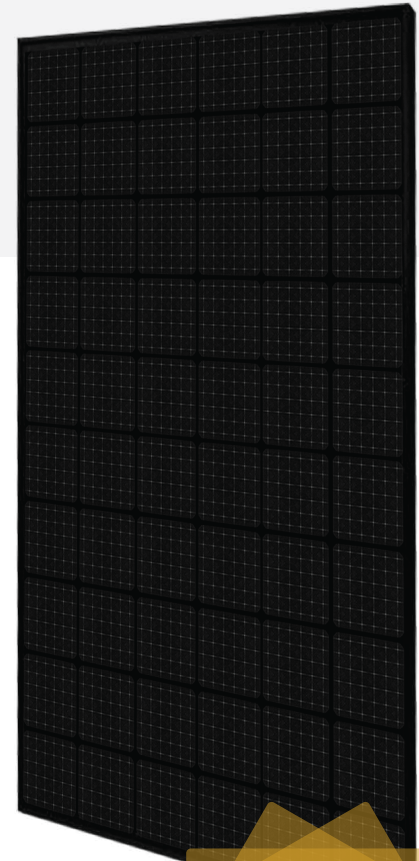
**Autarco BV  
MSC Series  
S1.MSC330**

Also available on the web at  
[EnergyPal.com/autarco-bv-solar-panels/s1-msc330](http://EnergyPal.com/autarco-bv-solar-panels/s1-msc330)

# Silverpoint™ 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%

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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

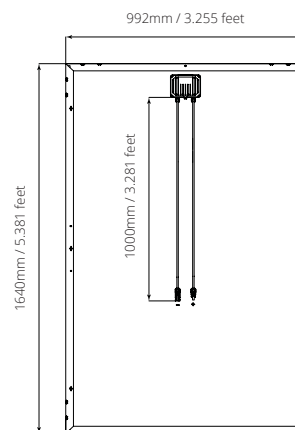
- IEC 61215, IEC61730, VDE, CE, MCS, CEC AU, UL1703
- ISO 9001, 14001, 18001 - CE
- Stichting ZRN, PV-Cycle



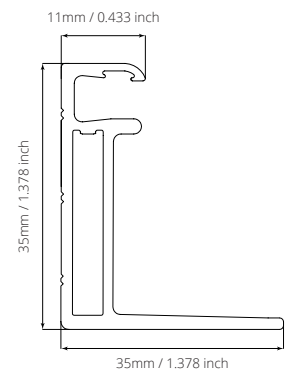
## Cells and construction

<b>Cells</b>	60 cells (157 x 157mm) in a 6 x 10 matrix connected in series
<b>Junction box</b>	IP67 box with 1000mm 4mm <sup>2</sup> cable fitted with MC4 connectors
<b>Diodes</b>	Three by-pass diodes
<b>Construction</b>	Front: 3.2mm glass Back: Backsheet (white or black) Encapsulant: EVA
<b>Frame</b>	Anodized aluminium (silver or black)
<b>Weight</b>	18.5kg
<b>Dimensions</b>	1640 x 992 x 35mm

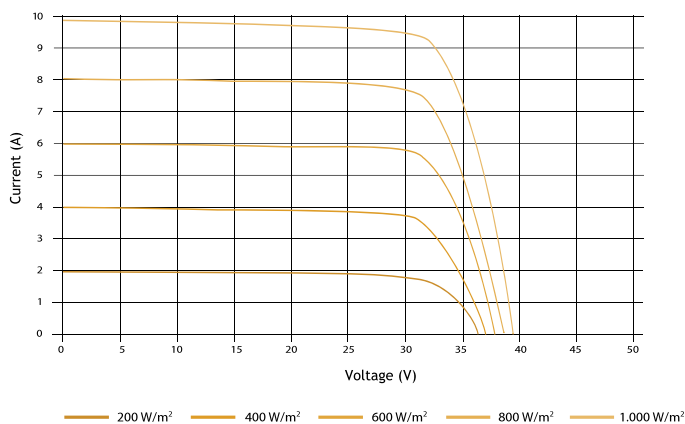
Panel



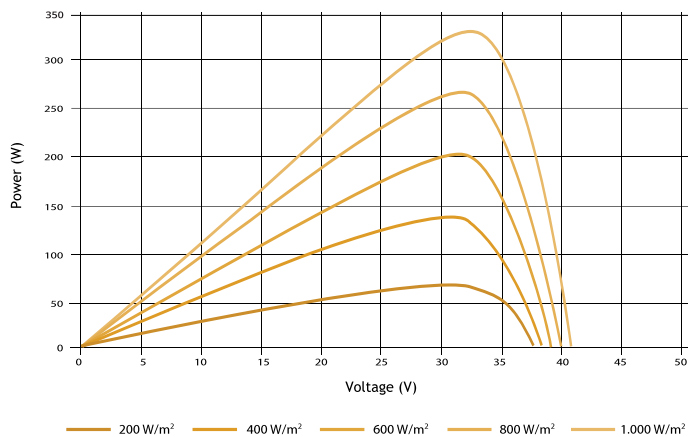
Frame cross section



## IV curve



## Power curve



## Electrical characteristics

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

Electrical values at standard test conditions (STC): irradiation 1000W/m<sup>2</sup>, air density AM1.5 and cell temperature 25°C  
 Max string voltage: 1000V, max series fuse: 15A

## Temperature characteristics

<b>Isc (<math>\alpha</math>)</b>	+0.06% / °C
<b>Voc (<math>\beta</math>)</b>	-0.28% / °C
<b>Pmax (<math>\gamma</math>)</b>	-0.36% / °C
<b>Nominal cell temperature</b>	43°C (+/- 2°C)

## Other characteristics

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

