



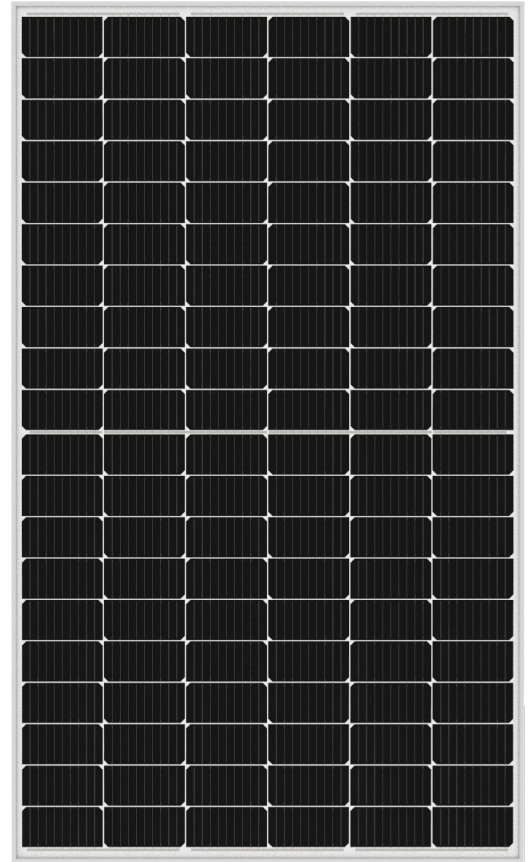


# MHI series solar panels

autarco

Autarco's MHI series solar panels use halfcut monocrystalline PERC cells with advanced multi-wire technology to deliver higher efficiency without compromising on reliability at a rated voltage of 1500V DC. The ability to withstand mechanical loads of up to 5400 Pa, combined with superior resistance to sand, salt and ammonia delivers long lasting performance in even the harshest environments.

- 25** Insured linear 25-year power output guarantee up to 83.1%  
12-year product warranty for materials and processing
-  Multiwire technology for superior reliability and performance
-  Halfcut PERC technology for reduced resistance loss and improved shade tolerance
-  PID resistant
-  Aesthetic cell colour consistency and hail resistant durability (45mm @ 30 m/s)



## QUALITY CERTIFICATES

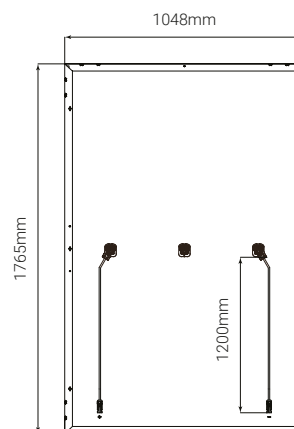
- ◆ IEC 61215, IEC 61730, C US, CNAS, IEC/TS 62941
- ◆ ISO 9001, ISO 14001, OHSAS 18001, CE



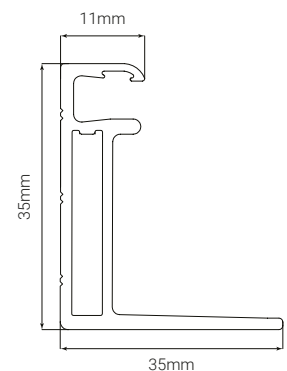
## CELLS AND CONSTRUCTION

<b>Cells</b>	120 cells (166 x 83 mm) in a 6 x 20 matrix connected in series
<b>Junction box</b>	IP rating: IP67 Cable length: 1200mm Connector: Staubli MC4
<b>Diodes</b>	3 by-pass diodes
<b>Construction</b>	Front: 3.2mm glass (coated) Backsheet: PET/F-coating (white) Encapsulant: EVA
<b>Frame</b>	Anodized aluminum
<b>Weight</b>	20 kg
<b>Dimensions</b>	1765 x 1048 x 35mm

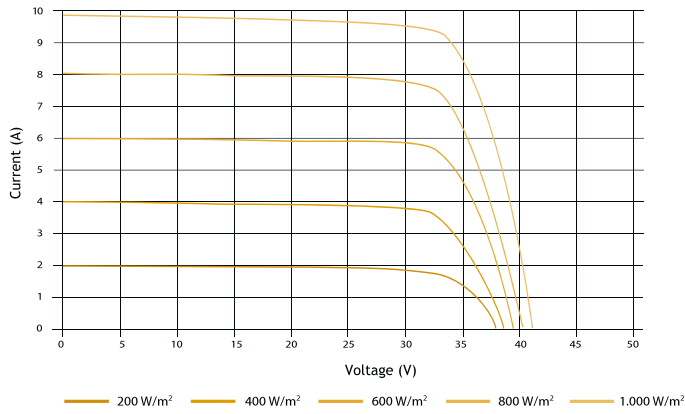
Solar panel



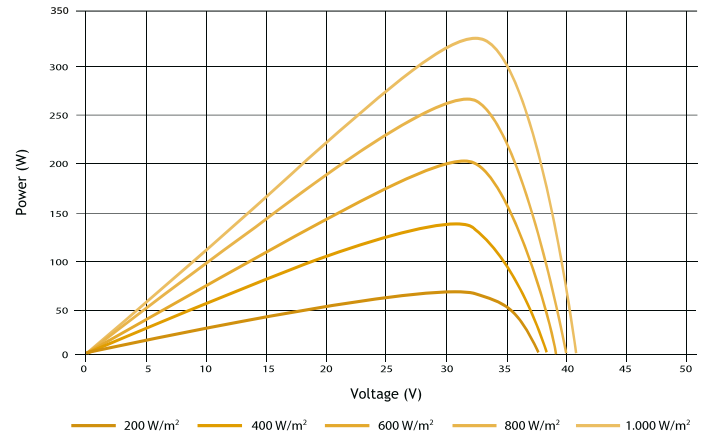
Frame cross section



## IV CURVE



## POWER CURVE



## ELECTRICAL CHARACTERISTICS

		S1.MHI355	S1.MHI360	S1.MHI365	S1.MHI370	S1.MHI375
<b>Power output (Wp) *</b>	(Pmax)	355	360	365	370	375
<b>Power output tolerance (W)</b>	(ΔPmax)	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
<b>Open circuit voltage (V)</b>	(Voc)	39.80	40.10	40.38	40.66	40.93
<b>Short circuit current (A)</b>	(Isc)	11.13	11.20	11.26	11.34	11.40
<b>Max. power voltage (V)</b>	(Vmax)	33.36	33.61	33.86	34.07	34.34
<b>Max. power current (A)</b>	(Imax)	10.64	10.71	10.78	10.86	10.92
<b>Module efficiency (%)</b>	(η)	19.2	19.5	19.7	20.0	20.3
<b>Maximum system voltage (V)</b>		1500	1500	1500	1500	1500
<b>Maximum series fuse rating (A)</b>		20	20	20	20	20

\* Electrical values at standard test conditions (STC): irradiation 1000W/m<sup>2</sup>, air density AM1.5 and cell temperature 25°C

## TEMPERATURE CHARACTERISTICS

<b>Isc (α)</b>	+0.0353% / °C
<b>Voc (β)</b>	-0.2722% / °C
<b>Pmax (γ)</b>	-0.3438% / °C
<b>Nominal operating cell temperature</b>	44°C (+/- 2°C)

## OTHER CHARACTERISTICS

<b>Operating temperature</b>	-40°C to 85°C
<b>Max. load</b>	5400 (front) / 2400 Pa (back)
<b>Passed hail test</b>	45mm hail @ 30.7m/s
<b>Fire performance</b>	Class C (IEC) or Type 1 (UL)
<b>Weight of packaging</b>	659 kg
<b>Standard packaging</b>	31 pcs / pallet
<b>Quantity per 40'HQ container</b>	806 pcs

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.

