



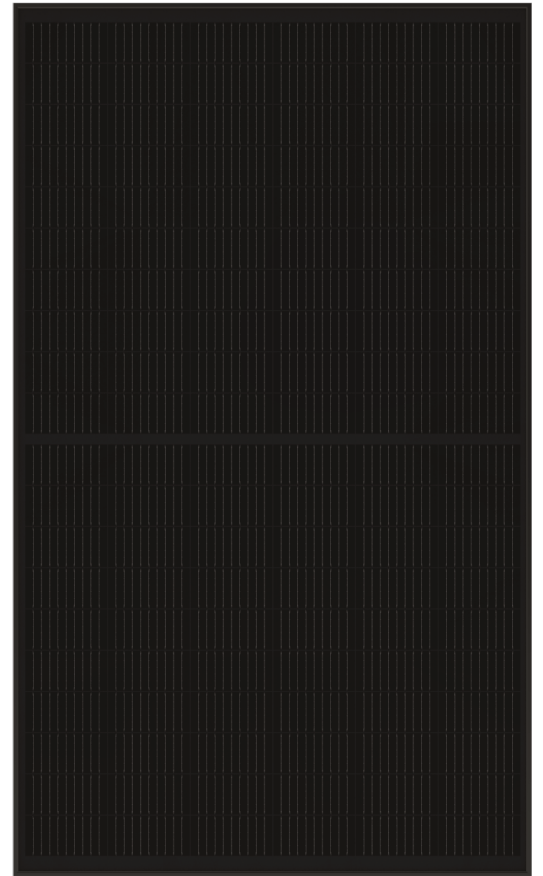


# MHI full black solar panels

autarco

Autarco's MHI full black solar panels use halfcut monocrystalline PERC cells with advanced multi-wire technology to deliver higher efficiency without compromising on reliability. Autarco delivers a consistent full black panel perfectly suited for the residential market where roof space is limited and an aesthetic finish is desired.

- 25** Insured linear 25-year power output guarantee up to 83.1%  
12-year product warranty
-  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

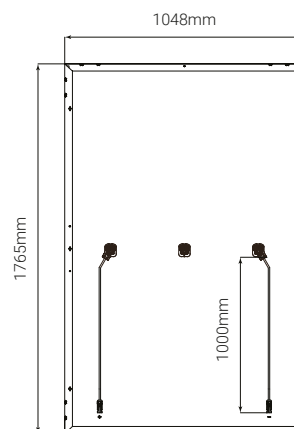
- ◆ IEC 61215, IEC 61730, C US, CNAS, IEC/TS 62941
- ◆ ISO 9001, ISO 14001, OHSAS 18001, CE



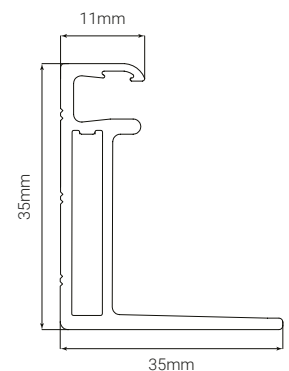
## CELLS AND CONSTRUCTION

<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 standard MC4
<b>Diodes</b>	3 by-pass diodes
<b>Construction</b>	Front: 3.2mm glass Backsheet: PET/F-coating (black) Encapsulant: EVA
<b>Frame</b>	Black anodized aluminum
<b>Weight</b>	20 kg
<b>Dimensions</b>	1765 x 1048 x 35mm

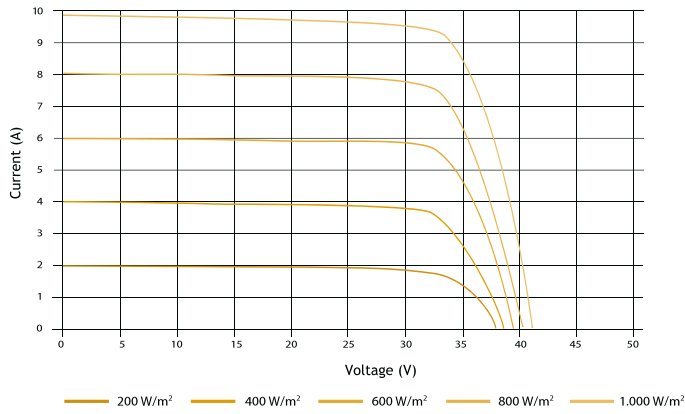
Solar panel



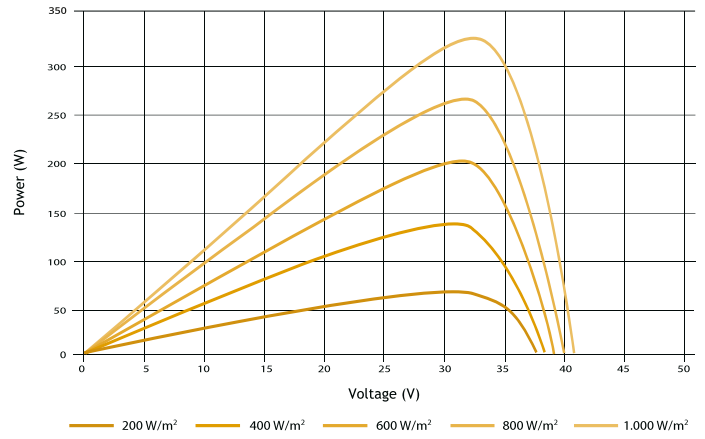
Frame cross section



## IV CURVE



## POWER CURVE



## ELECTRICAL CHARACTERISTICS

		S1.MHI350B	S1.MHI355B	S1.MHI360B	S1.MHI365B
Power output (Wp) *	(Pmax)	350	355	360	365
Power output tolerance (W)	(ΔPmax)	0/+5W	0/+5W	0/+5W	0/+5W
Open circuit voltage (V)	(Voc)	39.49	39.80	40.14	40.41
Short circuit current (A)	(Isc)	11.08	11.15	11.21	11.29
Max. power voltage (V)	(Vmax)	32.99	33.24	33.49	33.73
Max. power current (A)	(Imax)	10.61	10.68	10.75	10.82
Module efficiency (%)	(η)	18.9	19.2	19.5	19.7
Maximum system voltage (V)		1000	1000	1000	1000
Maximum series fuse rating (A)		20	20	20	20

\* Electrical values at standard test conditions (STC): irradiation 1000W/m², air density AM1.5 and cell temperature 25°C

## TEMPERATURE CHARACTERISTICS

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

## OTHER CHARACTERISTICS

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

