

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.

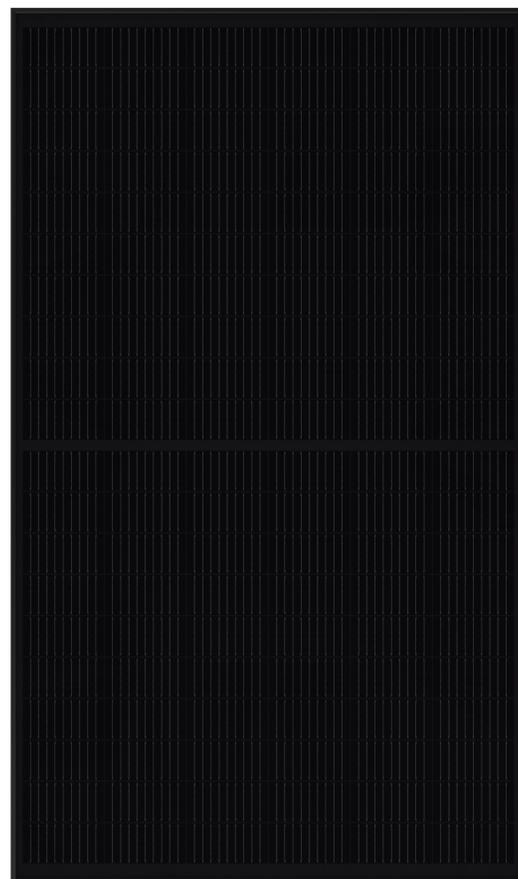
25 Insured linear 25-year power output guarantee up to 84.8%
12-year product warranty

 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

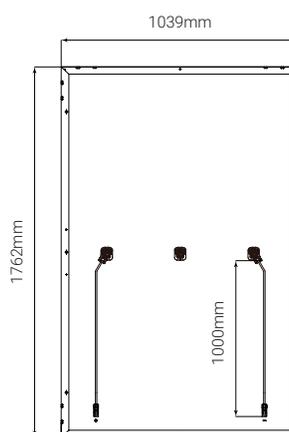
- ◆ IEC 61215, IEC 61730, C US, CNAS, IEC/TS 62941
- ◆ ISO 9001, ISO 14001, OHSAS 18001, CE



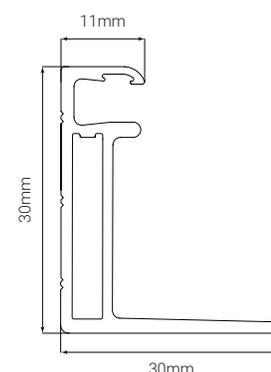
CELLS AND CONSTRUCTION

Cells	120 cells (166 x 83 mm) in a 6 x 20 matrix connected in series	
Junction box	IP rating:	IP67
	Cable length	1200mm
	Connector:	Staubli standard MC4
Diodes	3 by-pass diodes	
Construction	Front:	3.2mm glass
	Backsheet:	PET/F-coating (black)
	Encapsulant:	EVA
Frame	Black anodized aluminum	
Weight	20 kg	
Dimensions	1762 x 1039 x 30mm	

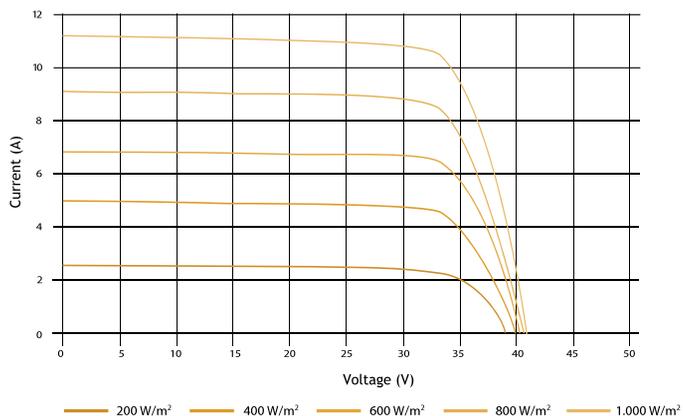
Solar panel



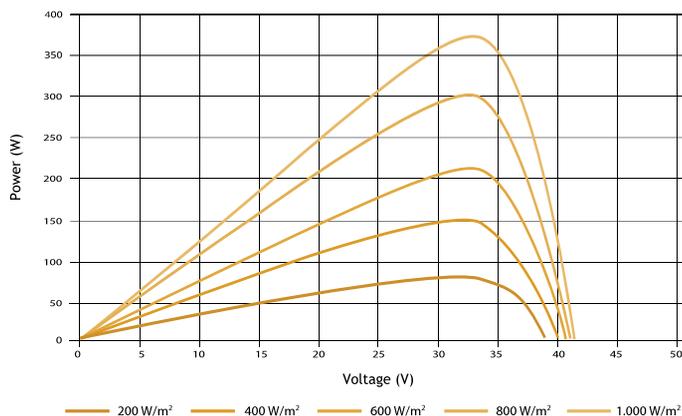
Frame cross section



IV CURVE



POWER CURVE



ELECTRICAL CHARACTERISTICS

		S1.MHI360B	S1.MHI365B	S1.MHI370B	S1.MHI375B	S1.MHI380B
Power output (Wp) *	(Pmax)	360	365	370	375	380
Power output tolerance (W)	(ΔPmax)	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Open circuit voltage (V)	(Voc)	40.69	40.81	40.97	41.18	40.37
Short circuit current (A)	(Isc)	11.15	11.23	11.31	11.40	11.49
Max. power voltage (V)	(Vmax)	33.71	33.96	34.20	34.44	34.68
Max. power current (A)	(Imax)	10.68	10.75	10.82	10.89	10.96
Module efficiency (%)	(η)	19.66	19.94	20.21	20.48	20.76
Maximum system voltage (V)		1000	1000	1000	1000	1000
Maximum series fuse rating (A)		20	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)	+0.05% / °C
Voc (β)	-0.2722% / °C
Pmax (γ)	-0.3438% / °C
Nominal operating cell temperature	45°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.

