



ptimum *new range*



Photovoltaic Solar module (144 ½ Mono PERC 6")
A-xxxM-H GS (390/395/400/405/410 W)

- **Optimize your instalations.**
- High module **efficiency** and stable power output based on leading process technology.
- **Outstanding electrical performance** under high-temperature conditions or low-irradiance conditions.
- Ease of installations due to the **innovative engineering design.**
- **Rigorous quality control** meets the highest international standard.
- **Warranty, 10-year** workmanship and **25-year** performance.





A-xxxM-H GS (SS) (xxx = potencia nominal)

Electrical characteristics	A-390M-H GS	A-395M-H GS	A-400M-H GS	A-405M-H GS	A-410M-H GS
Maximum Power (Pmax)	390 W	395 W	400 W	405 W	410 W
Maximum Power Voltage (Vmp)	41.10 V	41.40 V	41.70 V	42.00 V	42.30 V
Maximum Power Current (Imp)	9.49 A	9.55 A	9.60 A	9.65 A	9.69 A
Open Current Voltage (Voc)	49.30 V	49.50 V	49.80 V	50.10 V	50.40 V
Short Circuit Current (Isc)	10.12 A	10.23 A	10.36 A	10.48 A	10.60 A
Module Efficiency (%)	19.38	19.63	19.88	20.13	20.38
Power Tolerance (W)			0/+5		
Maximum Series Fuse Ratings (A)			20		
Maximum System Voltage (TUV)			DC 1.000 V / DC 1.500V (**)		
Normal Operating Cell Temperature (°C)			45±2		

Electrical characteristics tested at Standard Test Conditions (STC), defined as: Irradiance of 1000 w/m², spectrum AM 1.5 and temperature of 25 °C.
 Tolerance measures STC: ±3% (Pmp); ±10% (Isc, Voc, Imp, Vmp).
 Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%
 (**) Maximum system voltage of 1,500 V is manufactured to order.

Mechanical specifications

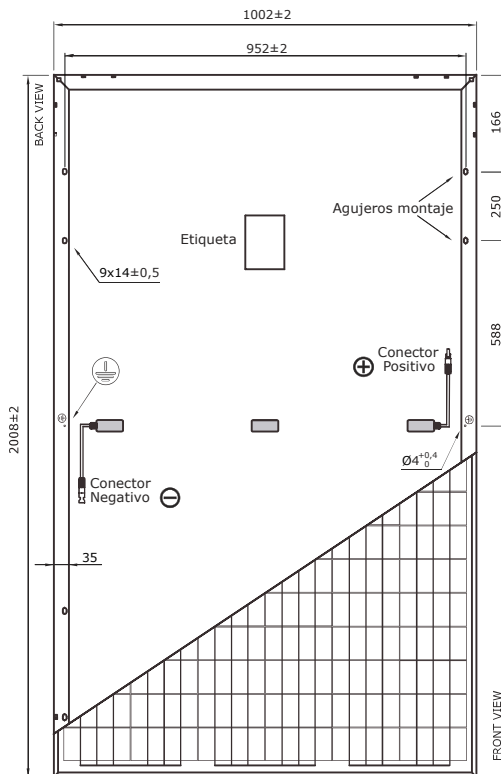
Dimensions (± 2 mm.)	2008x1002x40 mm.
Weight (± 0,5 kg)	22.5 kg
Max. static load, front (snow & wind)	5400 Pa
Max. static load, back (wind)	2400 Pa
Max. hailstone impact (diameter/velocity)	25 mm / 23 m/s

Construction materials

Front cover (material /type/thickness) (*)	Tempered Glass,High Transmission/Low Iron/3.2 mm
Cell (quantity/type/dimensions)	144 cells (6x24)/Mono PERC /158.75 x 79.38 mm
Frame (material/color)	Anodized aluminium alloy /silver
Junction box (protection degree)	IP67 / 3 diodes
Cable (length/cross-section area)/Connector	1.200 mm / 4 mm² / Combinable MC4

(*) With anti-reflective coating

Panel construction generic view



The drawing is not to scale

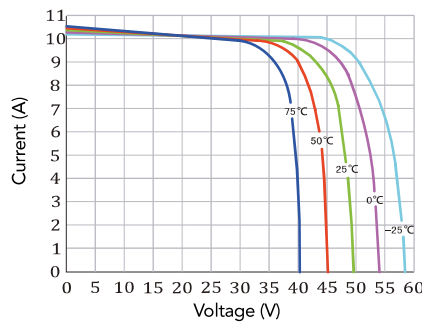
Temperature characteristics

Temp. Coeff. of Isc (TK Isc)	0.048% /°C
Temp. Coeff. of Voc (TK Voc)	-0.28% /°C
Temp. Coeff. of Pmax (TK Pmax)	-0.36% /°C
Operating Temperature	-40 to +85 °C

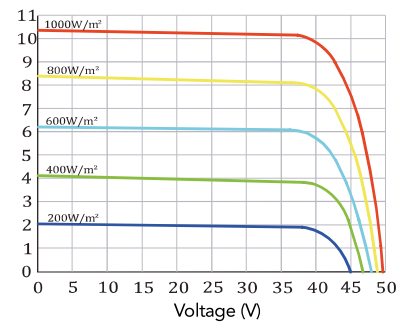
Packaging

Módulos/palé	27 pzas
Palés/contenedor 40´ HQ	22 palés
Módulos/contenedor 40´ HQ	594 pzas
Palés/contenedor 20´	10 palés
Módulos/contenedor 20´	270 pzas

Various Temperature (A-400M GS)



Various Irradiance (A-400M GS)



Official distributor:

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NB: The data contained in this documentation are subject to modification without prior notification.



IEC 61215
 IEC 61730