

A-400M GS

Mono PERC 108 Half Cell
395-415 Wp



High **efficiency** of **20.5%**



Excellent **performance** at low irradiance



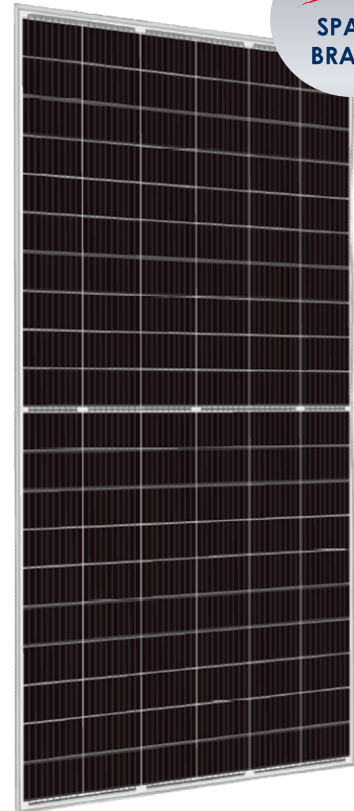
PID High PID **resistance**



Dual **quality** control

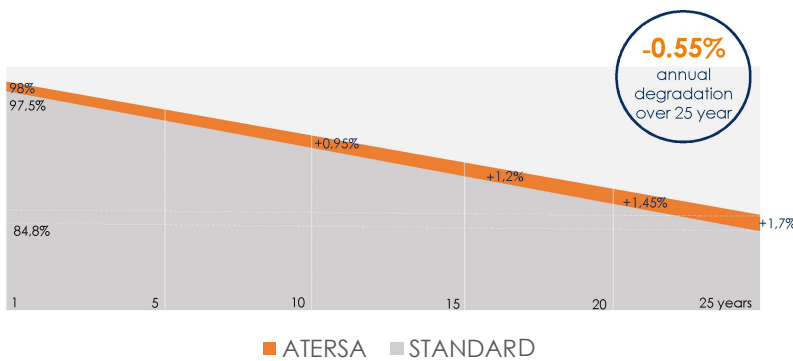


Higher **power** over 25 years



NOTE: Panel similar to the one in the image.
The panel shown contains 120 half cells.

LINEAR PERFORMANCE WARRANTY



Product Warranty
ATERSA-Spain



Linear **Performance**
Warranty



IEC 61215
IEC 61730
IEC 61701



ER-0096/1995-014/00



GA-2000/0294-014/00



SST-0164/2007



HCO-2015/0011



Electrical characteristics GS

A-395M GS 108 **A-400M GS 108** A-405M GS 108 A-410M GS 108 A-415M GS 108

Maximum Power (Pmax)	395 Wp	400 Wp	405 Wp	410 Wp	415 Wp
Maximum Power Voltage (Vmp)	30.80 V	31.05 V	31.25 V	31.45 V	31.65 V
Maximum Power Current (Imp)	12.83 A	12.90 A	12.97 A	13.04 A	13.12 A
Open Circuit Voltage (Voc)	36.70 V	36.95 V	37.15 V	37.35 V	37.55 V
Short Circuit Current (Isc)	13.72 A	13.78 A	13.85 A	13.92 A	14.00 A
Module Efficiency (%)	20.2	20.5	20.7	21.0	21.3
Power Tolerance (W)			0/+5		
Maximum Series Fuse Ratings (A)			25		
Maximum System Voltage (TUV)			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); ± 3 % (Voc, Vmp); ± 4 % (Isc, Imp).

Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Electrical Protection Classification: CLASS II
Fire Safety Classification: CLASS C

Mechanical specifications

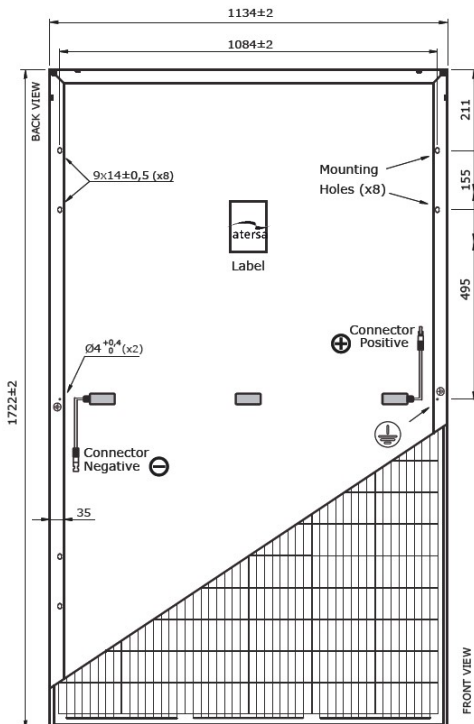
Dimensions (± 2.0 mm.)	1722x1134x35 mm
Weight (± 0.5 kg)	22.0 kg
Max. static load, front (snow & wind)	5400 Pa
Max. static load, back (wind)	2400 Pa
Max. hailstone impact (diameter/velocity)	25 mm / 23 m/s

Construction materials

Front cover (material /type/thickness) (*)	Tempered Glass,High Transmision/Low Iron/3.2 mm
Cell (quantity/type/dimensions)	108 half-cell (6x18)/ MonoPERC 10BB/ 182x91 mm
Frame (material/color)	Anodized aluminium alloy / silver
Junction box (protection degree/ diodes)	IP68/3 diodes
Cable (length/cross-section area)/ Connector	1400 mm. / 4 mm ² / Combinable MC4

(*) With anti-reflective coating

Engineering drawings



The drawing is not to scale

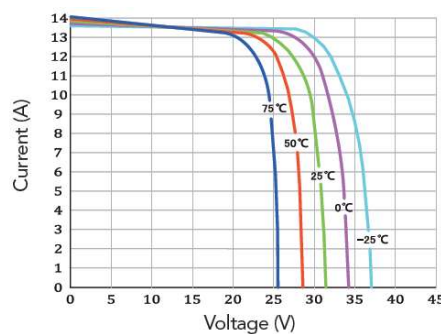
Temperature characteristics

Temp. Coefficient of Isc (TK Isc)	0.048 % /°C
Temp. Coefficient of Voc (TK Voc)	-0.270 % /°C
Temp. Coefficient of Pmax (TK Pmax)	-0.35 % /°C
Efficiency reduction (200W/m2 25°C)	< 5%
Operating Temperature	-40 a +85 °C

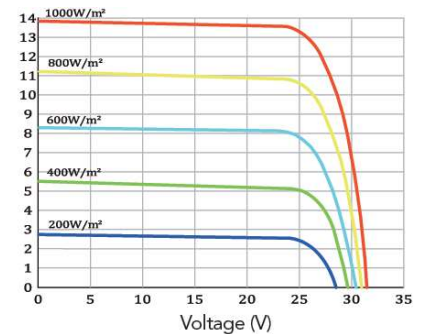
Packaging

Modules/pallet	31
Pallet/container 40' HQ	26
Modules/container 40' HQ	806
Pallet/container 20'	12
Modules/container 20'	372

I-V Temperature



I-V Irradiance



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

