

A-330M GS

Monocrystalline 60 Cell
320-330 Wp



High **efficiency** of **19.78%**



Excellent **performance** at low irradiance



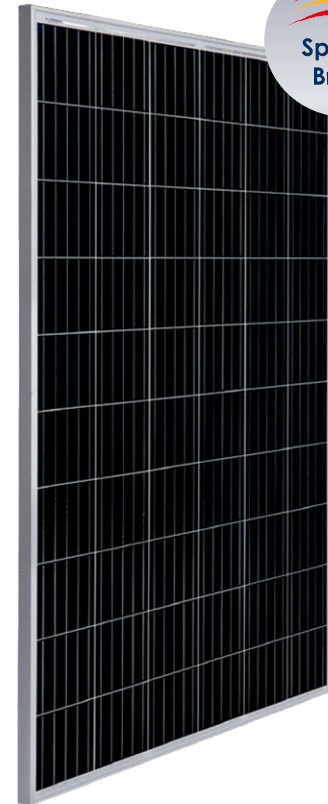
High PID **resistance**



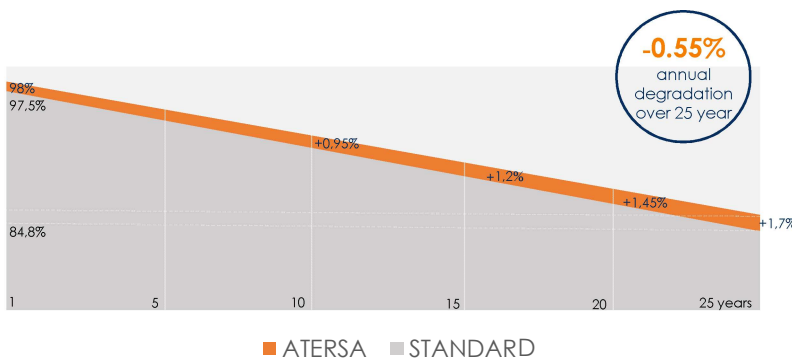
Dual **quality** control



Higher **power** over 25 years



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-320M GS 60

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Maximum Power (Pmax)	320 Wp	325 Wp	330 Wp
Maximum Power Voltage (Vmp)	34.10 V	34.30 V	34.50 V
Maximum Power Current (Imp)	9.39 A	9.48 A	9.57 A
Open Circuit Voltage (Voc)	40.60 V	40.80 V	41.00 V
Short Circuit Current (Isc)	10.00 A	10.10 A	10.20 A
Module Efficiency (%)	19.18	19.48	19.78
Power Tolerance (W)		0/+5	
Maximum Series Fuse Ratings (A)		15	
Maximum System Voltage (TUV)		DC 1.000 V	
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); ±4% (Voc, Vmp); ±5% (Isc, Imp).
 Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Mechanical specifications

Dimensions (± 2.0 mm.)	1665x1002x35 mm
Weight (± 0.5 kg)	19.00 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

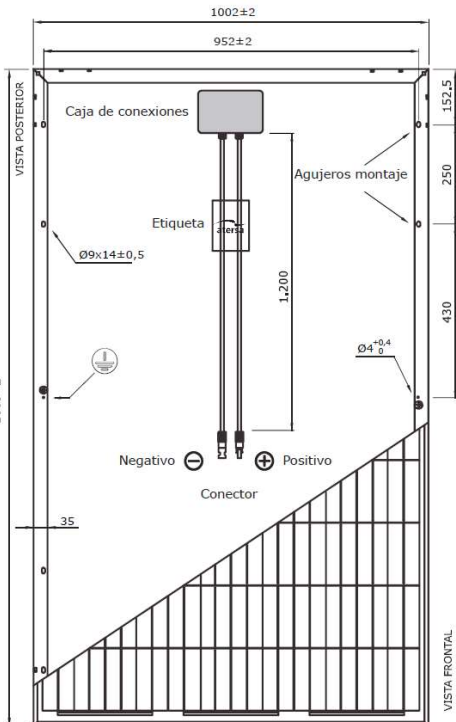
Front cover (material /type/thickness) (*)	Tempered Glass/ grade PV/3.2 mm
Cell (quantity/type/dimensions)	60 cells (6x10)/monocrystalline/ 158.75x158.75 mm
Frame (material/color)	Anodized aluminium alloy / silver
Junction box (protection degree)	IP67
Cable (length/cross-section area)/ Connector	1200 mm. /4 mm ² /Combinable MC4

(*) With anti-reflective coating

Engineering drawings

Temperature characteristics

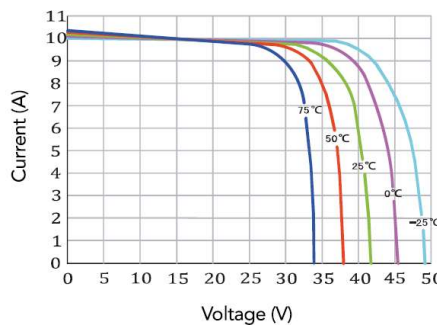
Packaging



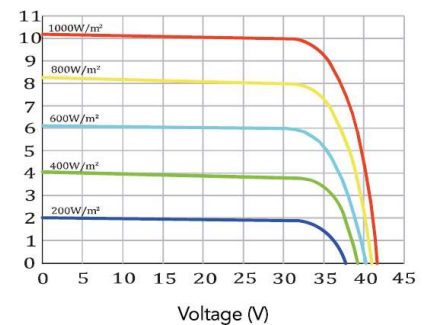
Temp. Coefficient of Isc (TK Isc)	0.08558 % /°C
Temp. Coefficient of Voc (TK Voc)	-0.29506 % /°C
Temp. Coefficient of Pmax (TK Pmax)	-0.38001 % /°C
Operating Temperature	-40 a +85 °C

Modules/pallet	31 pcs
Pallet/container 40' HQ	28 pallets
Modules/container 40' HQ	868 pcs
Pallet/container 20'	12 pallets
Modules/container 20'	372 pcs

I-V Temperature



I-V Irradiance



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

