

For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

Email: contact@energypal.com

EnergyPal

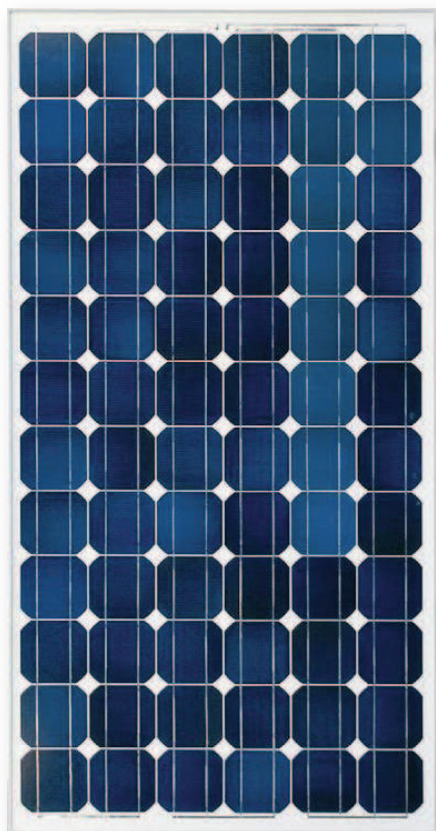
Solar Panel Guide Specification Data Sheet

**Atersa Grupo
A-320-330M (TYCO 3.2)
A-330M**

Also available on the web at
EnergyPal.com/atersa-grupo-solar-panels/a-330m

+ Ultra *new range*

➔ Photovoltaic module
A-320M / A-325M / A-330M (TYCO 3.2)



+ UltraPositive tolerance
Positive 0 / +5 Wp

+ UltraQuality Criteria
Anti Hot-Spot

+ UltraWarranty
10-year product warranty

+ UltraReliability
In the market since 1979

+ UltraResistance
3,2 mm tempered glass

+ UltraTES
Cell-to-cell electrical verification



A unique system
in the market,
patented by
Atersa.

Electrical characteristics (STC: 1kW/m², 25°C±2°C and AM 1,5)*

	A-320M	A-325M	A-330M
Rated Power (0/+5 W)	320 W	325 W	330 W
Module efficiency	16,45%	16,71%	16,96%
Peak-Point Current of Maximum Power (Imp)	8,52 A	8,60 A	8,67 A
Peak-Point Voltage of Maximum Power (Vmp)	37,56 V	37,82 V	38,07 V
Short-circuit Current (Isc)	8,99 A	9,06 A	9,12 A
Open Current Voltage (Voc)	46,08 V	46,43 V	46,78 V

Thermal parameters

Isc (α) Temperature Coefficient	0,04% /°C
Voc (β) Temperature Coefficient	-0,32% /°C
P (γ) Temperature Coefficient	-0,43% /°C

Physical characteristics

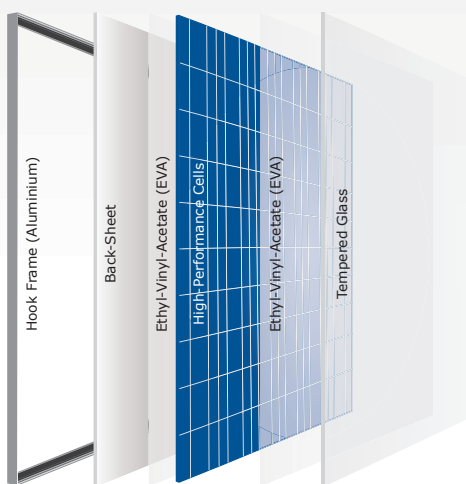
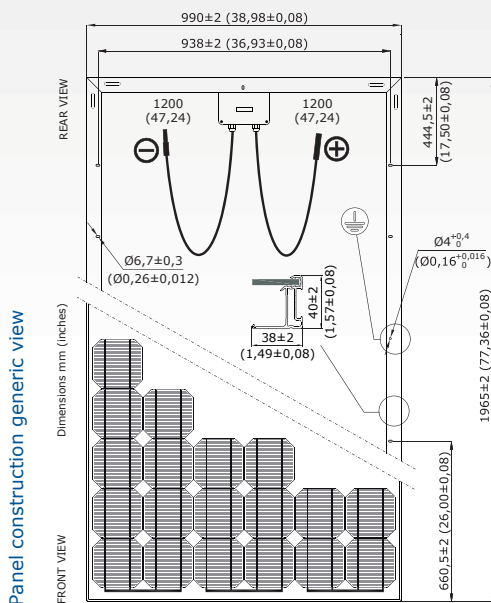
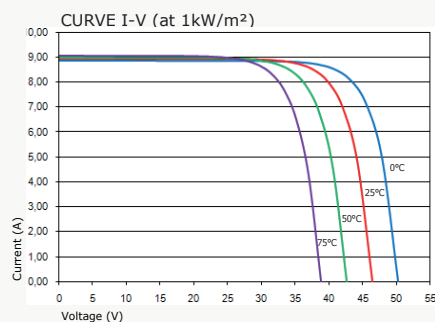
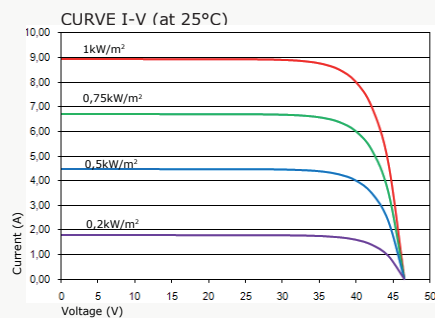
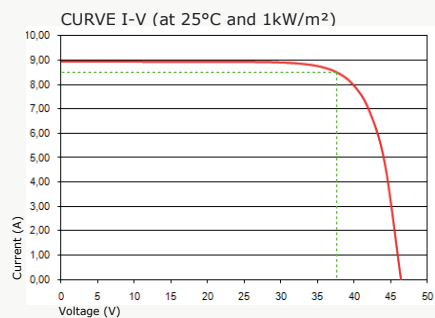
Dimensions (± 2 mm)	1965x990x40
Weight (± 0,5 kg)	22,5
Surface area (m ²)	1,95
Cell type (± 1 mm)	Monocrystalline 156x156 mm (6 inches)
Cells in series	72 (6x12)
Front glass	Ultra-clear 3,2 mm tempered glass
Frame	anodized aluminium alloy or Polyester-coated
Connection box	TYCO IP67
Cables	Solar Cable 4 mm ² 1200 mm
Connectors	TYCO PV4

Operating range

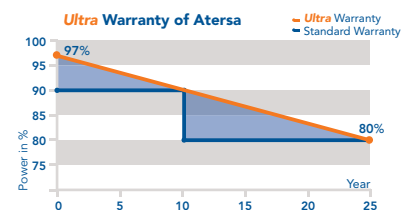
Temperature	-40°C to +85°C
Maximum System Voltage / Protection	1000 V / CLASS II
Maximum Wind Load / Snow Load	2400 Pa (130 km/h)
Max. Reverse Current (IR)	15,1 A

*Electrical specifications measured in STC. NOCT: 47±2°C.
Tolerance measures STC: ±3% (Pmp); ±10% (Isc, Voc, Imp, Vmp).

A-320M curves model



- Modules per box: **25 units**
- Weight per pallet: **595 kg**
- A 40-foot container can hold 21 boxes: **525 panels**
- A 40-foot HC container can hold 22 boxes: **550 panels**
- A 20-foot container can hold 9 boxes: **225 panels**
- A TAUTLINER truck can hold 26 boxes: **650 panels**



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

➔ www.atersa.com • atersa@elecnor.com
Madrid +34 915 178 452 • Valencia +34 961 038 430

Latest revision: **27/04/17**
Ref.: **E-MU-6M (5) 6x12-D (TY 3.2)**
© **Atersa SL, 2015**

