

# **+ Ultra** *new range*

➔ Photovoltaic module  
**A-270M / A-275M (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/m<sup>2</sup>, 25°C±2°C and AM 1,5)\*

	A-270M	A-270M
Rated Power (0/+5 W)	270 W	275 W
Module efficiency	16,56%	16,87%
Peak-Point Current of Maximum Power (Imp)	8,59 A	8,67 A
Peak-Point Voltage of Maximum Power (Vmp)	31,44 V	31,72 V
Short-circuit Current (Isc)	9,07 A	9,12 A
Open Current Voltage (Voc)	38,65 V	38,98 V

Thermal parameters

Isc (α) Temperature Coefficient	0,03% /°C
Voc (β) Temperature Coefficient	-0,34% /°C
P (γ) Temperature Coefficient	-0,43% /°C

Physical characteristics

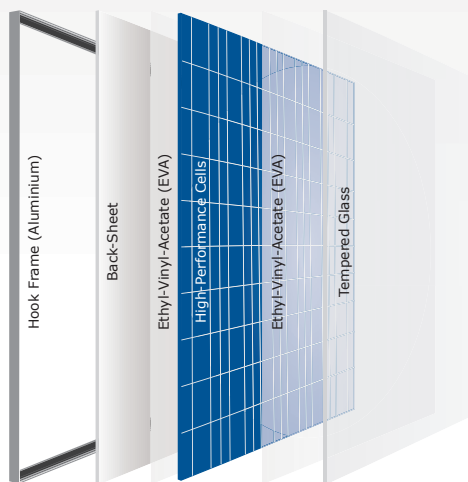
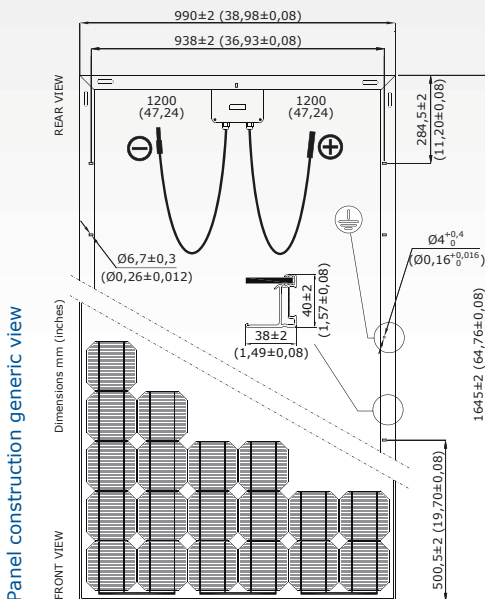
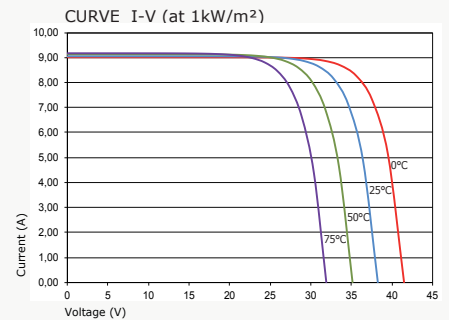
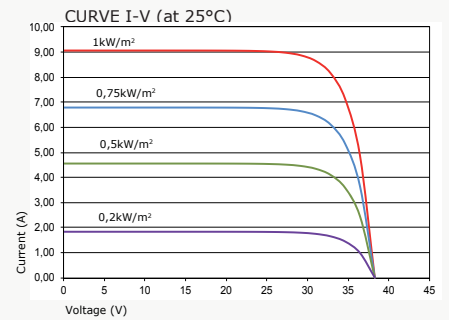
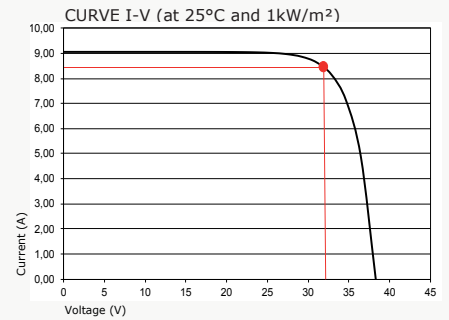
Dimensions (mm ± 2 mm)	1645x990x40
Weight (kg)	19,2
Surface area (m <sup>2</sup> )	1,63
Cell type (± 1 mm)	Monocrystalline 156x156 mm (6 inches)
Cells in series	60 (6x10)
Front glass	Ultra-clear 3.2 mm tempered glass
Frame	anodized aluminium alloy or Polyester-coated
Connection box	TYCO IP67
Cables	Solar Cable 4 mm <sup>2</sup> 1.200 mm
Connectors	TYCO PV4

Operating range

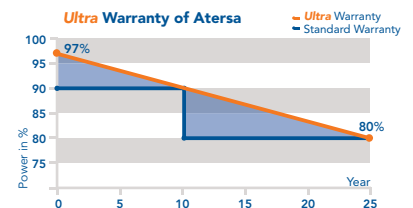
Temperature	-40°C to +85°C
Maximum System Voltage / Protection	1000 V / CLASS II
Maximum Wind Load / Snow Load	2400 Pa (130 km/h) / 5400 Pa (551 kg/m <sup>2</sup> )
Max. Reverse Current (IR)	15,1 A

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

A-270M curves model



- Modules per box: **25 units**
- Weight per pallet: **495 kg**
- A 40-foot container can hold 25 boxes: **625 panels**
- A 40-foot HC container can hold 26 boxes: **650 panels**
- A 20-foot container can hold 10 boxes: **250 panels**
- A TAUTLINER truck can hold 30 boxes: **750 panels**



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

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