

# **+ Ultra** *new range*

➔ Photovoltaic module  
**A-290P / A-295P / A-300P (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-290P	A-295P	A-300P
Rated Power (0/+5 W)	290 W	295 W	300 W
Module efficiency	14,91%	15,16%	15,42%
Peak-Point Current of Maximum Power (Imp)	8,07 A	8,14 A	8,21 A
Peak-Point Voltage of Maximum Power (Vmp)	35,93 V	36,23 V	36,52 V
Short-circuit Current (Isc)	8,67 A	8,78 A	8,89 A
Open Current Voltage (Voc)	44,67 V	44,82 V	44,97 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

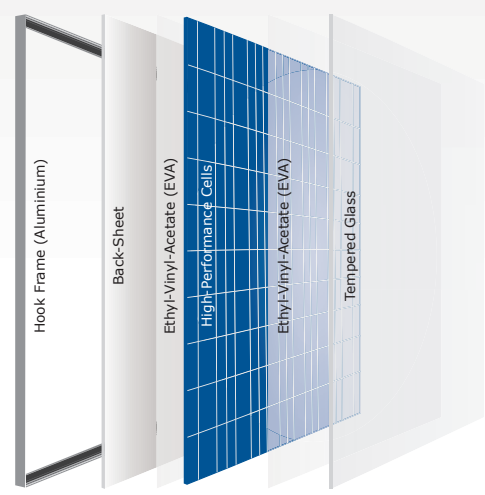
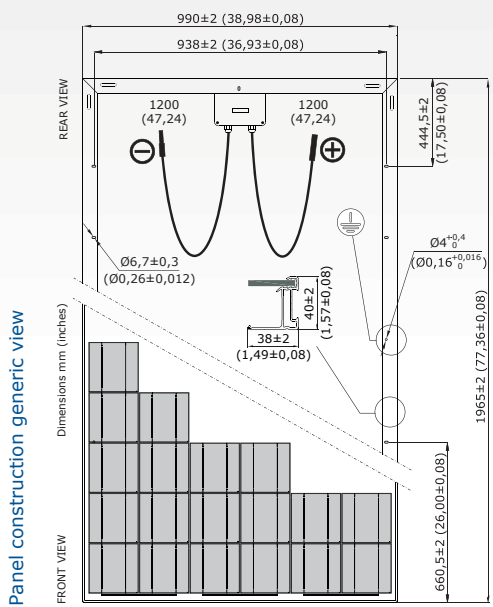
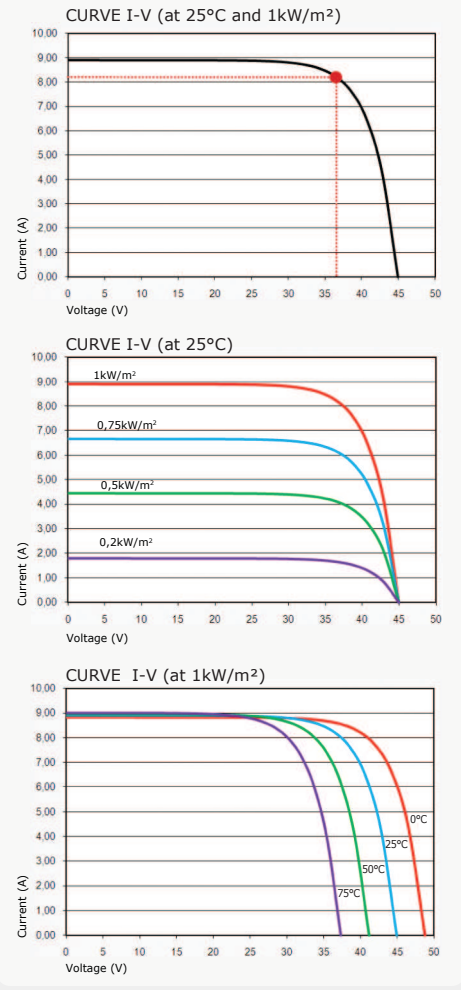
Dimensions (mm ± 2 mm)	1965x990x40
Weight (kg)	22,5
Surface area (m <sup>2</sup> )	1,95
Cell type (± 1 mm)	Polycrystalline 156x156 mm (6 inches)
Cells in series	72 (6x12)
Front glass	Ultra-clear 3,2 mm tempered glass
Frame	anodized aluminium alloy or Polyester-coated
Connection box	TYCO IP67
Cables	Solar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

Operating range

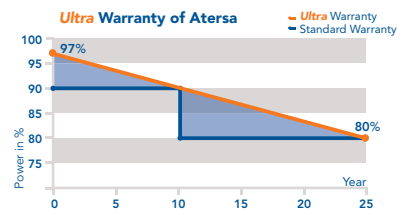
Temperature	-40°C to +85°C
Maximum System Voltage / Protection	1000 V / CLASS II
Maximum Wind Load / Snow Load	2400 Pa (130 km/h)
Max. Reverse Current (IR)	15,1 A

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

A-300P 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.

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