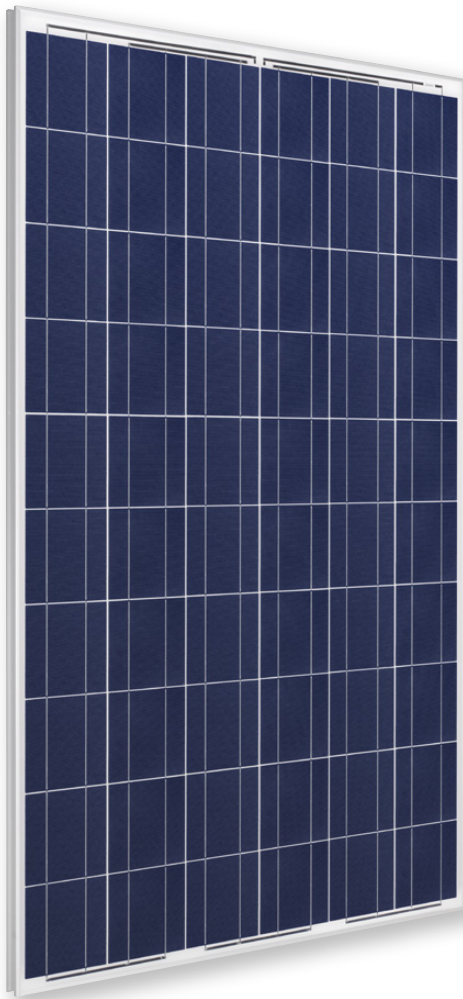


+Ultra *new range*

➔ Photovoltaic module
A-230P / A-235P / A-240P



+UltraPositive tolerance
Positive 0 / +5 Wp

+UltraQuality Criteria
Anti Hot-Spot

+UltraWarranty
10-year product warranty

+UltraReliability
In the market since 1979

+UltraResistance
4 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-230P	A-235P	A-240P
Rated Power (0/+5 W)	230 W	235 W	240 W
Module efficiency	14,12%	14,43%	14,74%
Peak-Point Current of Maximum Power (Imp)	7,99 A	8,10 A	8,21 A
Peak-Point Voltage of Maximum Power (Vmp)	28,87 V	29,04 V	29,21 V
Short-circuit Current (Isc)	8,55 A	8,64 A	8,73 A
Open Current Voltage (Voc)	36,72 V	36,94 V	37,16 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

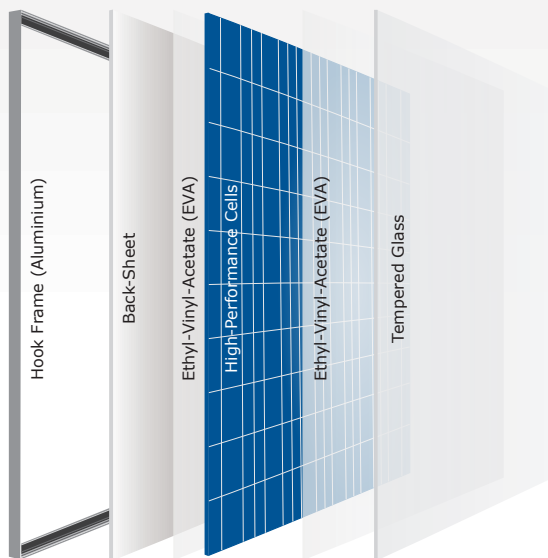
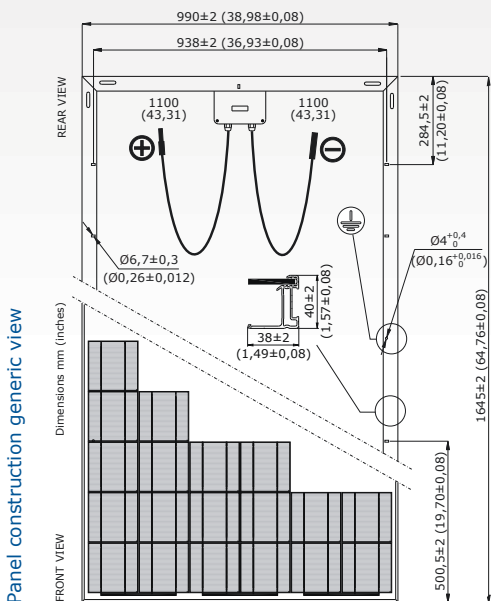
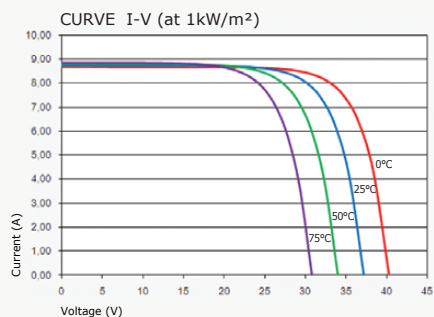
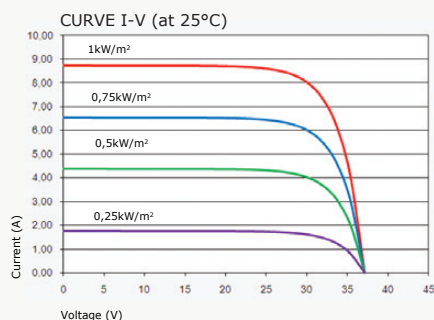
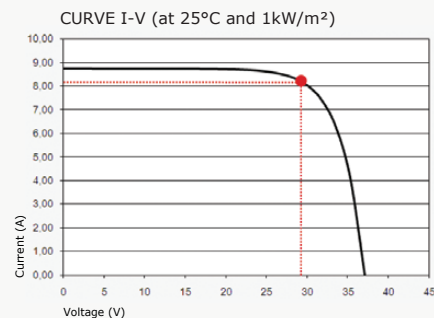
Dimensions (mm ± 2 mm)	1645x990x40
Weight (kg)	21,5
Surface area (m ²)	1,63
Cell type	Polycrystalline 156x156 mm (6 inches)
Cells in series	60 (6x10)
Front glass	Ultra-clear 4 mm tempered glass
Frame	Polyester-coated aluminium alloy
Connection box / Optional	QUAD IP54 / QUAD IP65
Cables	Solar Cable 4 mm ² 1100 mm
Connectors	MC4 or combinable MC4

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 ²)
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-240P curves model



- Modules per box: **25 units**
- Weight per pallet: **560 kg**
- A 40-foot container can hold 26 boxes: **650 panels**
- A 20-foot container can hold 12 boxes: **300 panels**
- A TAUTLINER truck can hold 30 boxes: **750 panels**

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

Latest revision: **02/01/12**
Ref.: **E-MU-6P (2) 6x10-0**

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