



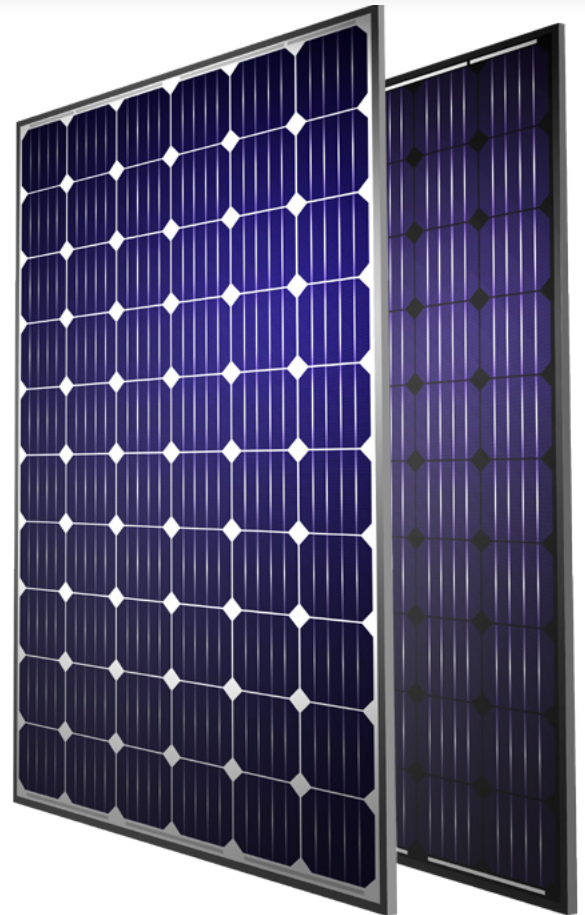
20 years of experience
15 years product warranty

Quality

- / Subjected to test electroluminescence
- / IP65 + 1 m cable
- / High transmissivity glass and high resistance
- / Frame with higher mechanical strength and air chamber
- / Friendly environment & recyclable materials

Certificates

- / IEC 61215:2005
- / IEC 61730-1:2004 / IEC 61730-2:2004
- / Frontal load (snow) 5.400 Pa
- / Back load (wind) 2.400 Pa
- / Fire Resistance Certificate / Class II (under standard UNI 9177)
- / MCS (UK)
- / EE016-20130528-001 (France)
- / WEEE compliance in Germany
- / ETL Listed Mark (USA)



TOTAL 60
• 15 YEARS WARRANTY
• 20 YEARS EXPERIENCE
• 25 YEARS PERFORMANCE



Extra power
extra up to 3%
extra up to 7W

PHOTON Laboratory talks about our modules:

"Eurener is one of the oldest module manufacturers in Europe: the Spanish company was founded in 1997. [...] Is distinguished by having values that are over the average: the temperature coefficient is quite better than other modules that are in the test field. The curve behavior at different irradiance conditions shows a marked efficiency increase in radiations from medium to high, and a slight drop in efficiency at low irradiance conditions. These factors show that this module could reach higher performance than the average in long-term measurements".



TURBO

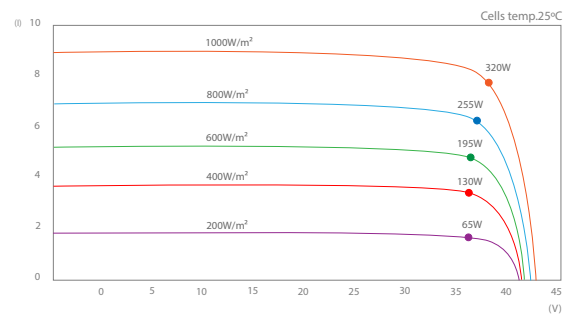
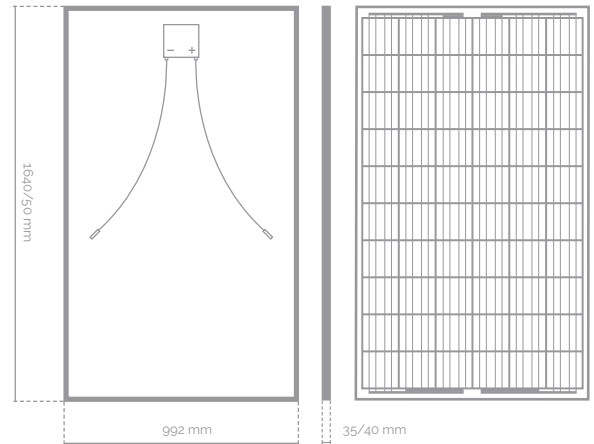
The most powerful module of the world / 300 - 320 w





Technical features

Frame
Silver anodized aluminium 0,015 mm
Robust and resistant to corrosion
Free silicone (Lhomann tape)
Built-in plug
Connection box
Sealed, robust and wide for heat dissipation
IP65 according to IEC 60529
Diodes by-pass built-in (3) for protection of the partial shading
Connector MC4 or compatible, easy and rapid connection
Cables 1 meter length and 4mm ² section
Reaction to Fire Class II (conformity to UNI 9177 norm)
Frontal
3,2 mm tempered glass
Textured, extra-clear with low iron content
Solar cells
60 cells monocrystalline silicon / 156x156 mm
Weight and dimensions (L x W) +/-1% mm
20 Kg 1640/50 x 992 x 35/40 mm



Electric data

Standard - All Black	TURBO 300	TURBO 310	TURBO 315	TURBO 320
Nominal power, P _{mpp}	300 W	310 W	315 W	320 W
Tolerance, P _{mpp}	+ 3%			
Area of the module	1,62			
Module efficiency	18,52%	19,14%	19,44%	19,75%
I _{sc}	9,63 A	9,71 A	9,81 A	9,98 A
U _{oc}	40,24 V	40,50 V	40,81 V	41,71 V
I _{mp}	9,22 A	9,40 A	9,50 A	9,60 A
U _{mp}	32,54 V	32,98 V	33,16 V	33,33 V
Maximum voltage	1000 V			
α I _{sc}	0,039% / °C			
β U _{oc}	- 0,29% / °C			
γ P _{max}	- 0,42% / °C			
Temperature range	- 40°C to +85°C			
NOCT	44°C ± 2°C			

NOTE: Read the instruction manual of this product and follow the indications. Values are valid for: 1000W/m², AM 1.5 and cell's temperature of 25°C. All the information of this brochure may be amended without notice by Eurener.