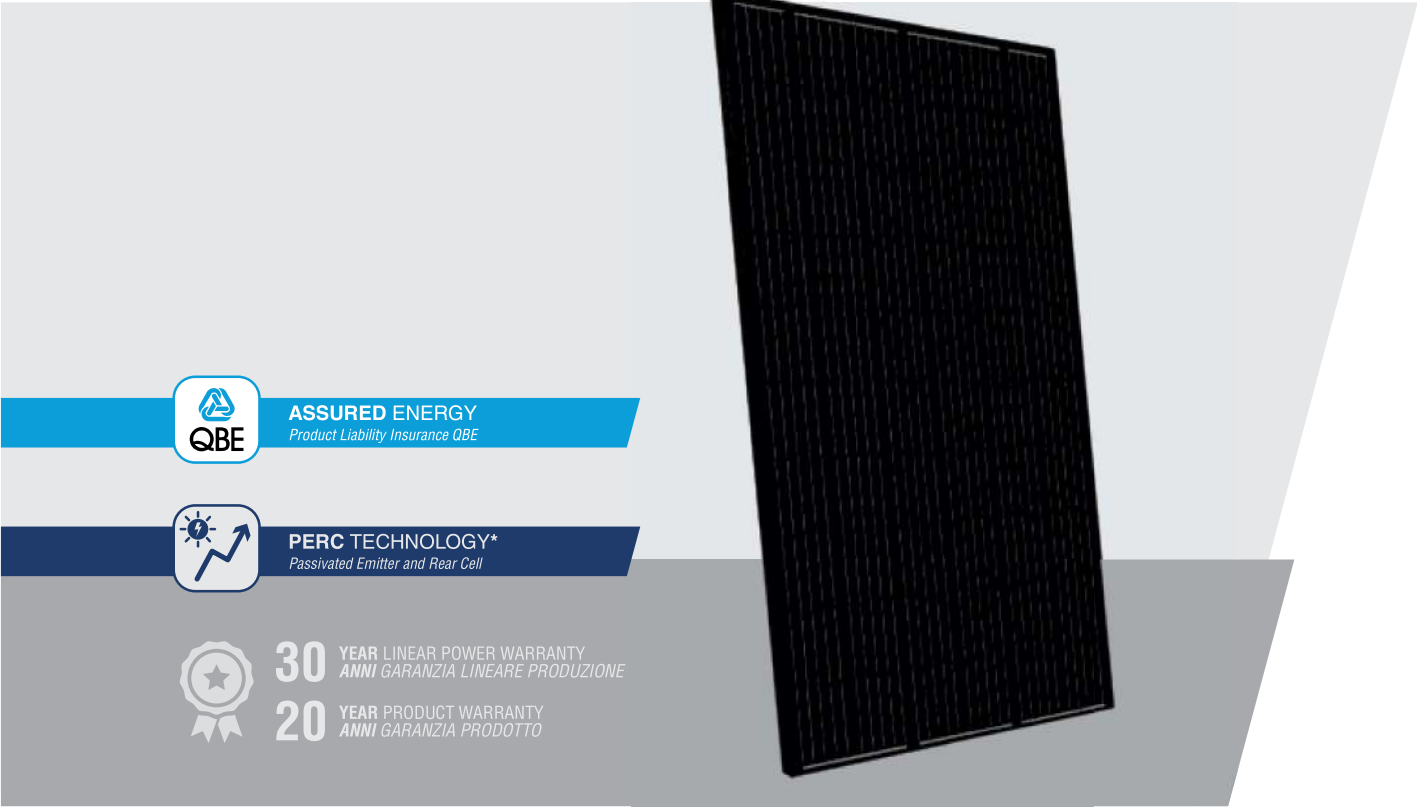


MODULES ON GRID



**ASSURED ENERGY**  
Product Liability Insurance QBE



**PERC TECHNOLOGY\***  
Passivated Emitter and Rear Cell



**30** YEAR LINEAR POWER WARRANTY  
ANNI GARANZIA LINEARE PRODUZIONE  
**20** YEAR PRODUCT WARRANTY  
ANNI GARANZIA PRODOTTO

FULL BLACK LINE

SG300M (FB)

"MADE IN ITALY" MODULE

PEIMAR monocrystalline solar panels, produced using a combination of innovative production processes and advanced engineering techniques, provide customers with maximum output and super high performance (over 20% efficiency). This allows fewer panels to be used to generate more energy, ideal if space is restricted or environmental conditions are challenging. Modern design, using matching black cells and frames and a very long lifespan ensure this monocrystalline are a great option.

\*Thanks to the use of **PERC** cells, PEIMAR modules are able to reach even higher efficiencies, as they facilitate the light imprisonment in close proximity to the rear surface and optimise the electron capture.



**POSITIVE POWER OUTPUT TOLERANCE**



MODULE FIRE PERFORMANCE: **CLASS I**



**ANTI-REFLECTIVE GLASS**



**HAILSTORM RESISTANCE**

CELLS

**60**  
MONO



QTY:  
60 CELLS  
TYPE:  
MONO 5BB  
**PERC TECHNOLOGY** ⚡  
DIMENSION:  
156x156 mm / 6x6"

FRAME



BACKSHEET



JUNCTION BOX



ELECTRICAL CHARACTERISTICS (STC)\*

	SG300M (FB)
Nominal Output (Pmax)	300 W
Flash Test Power Tolerance	0/+5 W
Voltage at Pmax (Vmp)	32 V
Current at Pmax (Imp)	9.4 A
Open Circuit Voltage (Voc)	40.2 V
Short Circuit Current (Isc)	9.71 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	15 A
Module Efficiency	18.44%

MECHANICAL CHARACTERISTICS

Solar Cells	60 (6x10) monocrystalline <b>PERC</b>
Solar Cells Size	156x156 mm / 6x6"
Front Cover	3.2 mm / 0.12" thick, low iron tempered glass
Back Cover	TPT (Tedlar-PET-Tedlar)
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Frame finishing	Black
Backsheet finishing	Black
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	900 mm / 35.4"
Cables Section	4.0 mm² / 0.006 in²
Dimensions	1640x992x40 mm / 64.5x39x1.57"
Weight	18 Kg / 39.7 lbs
Max. Load	Certified to 5400 Pa

TEMPERATURE CHARACTERISTICS

NOCT**	45±2 °C
Temperature Coefficient of Pmax	-0.42 %/°C
Temperature Coefficient of Voc	-0.32 %/°C
Temperature Coefficient of Isc	0.047 %/°C
Operating Temperature	-40 °C ~ +85°C

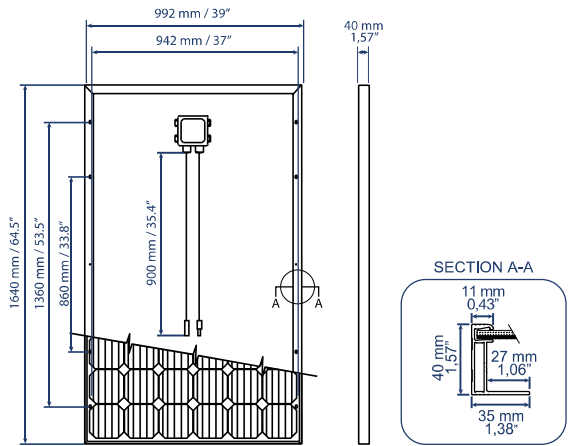
PACKAGING\*\*\*

Pallet dimensions	1700x1200x1200 mm / 67x47x47"
Pieces per pallet	27
Weight	516 Kg / 1138 lbs

CERTIFICATIONS

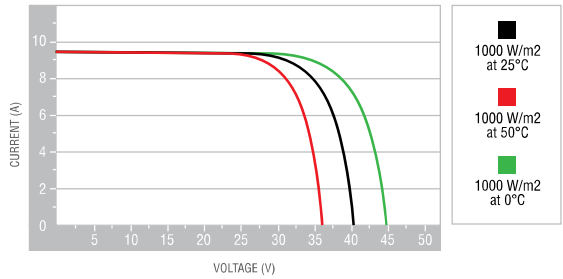
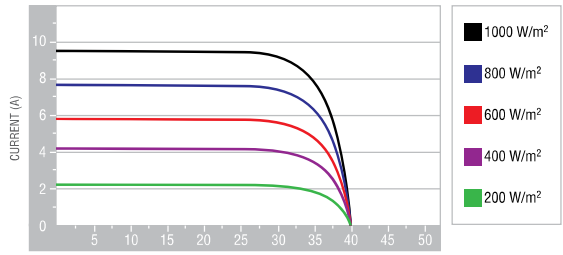
Fire Resistance Rating	Class C (for ULC/ORD-C1703-01)
Module fire performance	Type 1 (for UL 1703)

DIMENSIONS



CURRENT/VOLTAGE CHARACTERISTICS

Values apply to modules: SG300M (FB)



\*STC: (Standard Test Condition) Irradiance 1000W/m²; Module Temperature 25°C; Air Mass 1.5

\*\*NOCT: (Nominal Operation Cell Temperature) Sun 800W/m²; Air 20°C; Wind speed 1m/s

\*\*\*Pallets can be stacked up to two

**PEIMAR**  
Italian PHOTOVOLTAIC modules

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