

/// PEIMAR
ITALIAN PHOTOVOLTAIC MODULES



PEIMAR'S OFFICIAL BROCHURE - **UK VERSION**

Abo

ON GRID

- 04 **RESIDENTIAL LINE**
SG270P | SG280P
- 06 **COMMERCIAL LINE**
SG330P
- 08 **FULL BLACK LINE**
SG300M (FB)
- 10 **HIGH EFFICIENCY LINE**
SG300M (BF) | SG310M (BF)
- 12 **HIGH POWER LINE**
SG360M

OFF GRID

- 14 **SMALL LINE**
OS10P | OS20P | OS30P | OS50P
OS80P | OS100P | OS150P

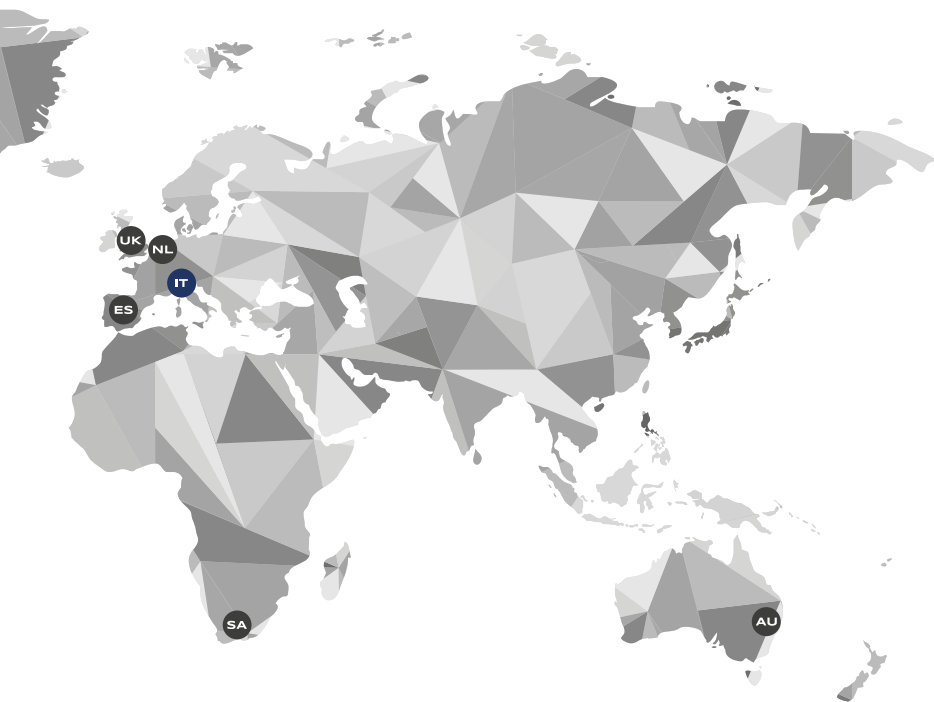




ut Us About Us

PEIMAR is an Italian company specialising in the design, research and manufacturing of high efficiency solar modules. Thanks to constant technical innovation and in depth know-how acquired over the years, **PEIMAR** offers “Made in Italy” solar panels, manufactured using high quality materials and designed to meet the highest performance standards.

The optimisation of highly automated production lines and attention to details are the strong points of the company, enabling a production capacity of 150MW per year at the Italian site in Brescia.



Peimar Worldwide

Although headquarters are located in Brescia (Italy) the company is international, with branches in the United Kingdom, the United States, Australia, in South Africa, Netherlands, Latin America and Spain.

Our sales team is made up of an extensive global commercial network, that facilitates the development of our business. Our mission is to satisfy the customers' demands and offer them the best possible service; building solid, long-lasting relationships with distributors, installers and the customers themselves.

MODULES ON GRID



MCS Certification



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

RESIDENTIAL LINE

SG270/280P

 "MADE IN ITALY" MODULE

PEIMAR polycrystalline solar panels made in Italy provide customers with a perfect combination of high-efficiency and versatility. Thanks to the use of high-quality solar cells, our panels achieve outstanding performance and ensure maximum production output even under poor lighting and weather conditions. The strong yet ultra-light frames, available in silver or black make installation easy but robust in either residential, commercial or large-scale settings.



POSITIVE POWER OUTPUT TOLERANCE



PID FREE



MODULE FIRE PERFORMANCE: CLASS I



ANTI-REFLECTIVE GLASS



HAILSTORM RESISTANCE

CELLS

60
POLY



QTY:
60 CELLS
TYPE:
POLY 5BB
DIMENSION:
156x156 mm / 6x6"

FRAME



BACKSHEET



JUNCTION BOX



ELECTRICAL CHARACTERISTICS (STC)*

Nominal Output (Pmax)
Flash Test Power Tolerance
Voltage at Pmax (Vmp)
Current at Pmax (Imp)
Open Circuit Voltage (Voc)
Short Circuit Current (Isc)
Maximum System Voltage
Maximum Series Fuse Rating
Module Efficiency

	SG270P	SG280P
Nominal Output (Pmax)	270 W	280 W
Flash Test Power Tolerance	0/+5 W	0/+5 W
Voltage at Pmax (Vmp)	30.8 V	31.2 V
Current at Pmax (Imp)	8.77 A	8.98 A
Open Circuit Voltage (Voc)	37.2 V	37.3 V
Short Circuit Current (Isc)	9.5 A	9.7 A
Maximum System Voltage	1500 V	1500 V
Maximum Series Fuse Rating	15 A	15 A
Module Efficiency	16.60%	17.21%

MECHANICAL CHARACTERISTICS

Solar Cells	60 (6x10) polycrystalline
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	Silver / Black
Backsheet finishing	White
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	900 mm / 35.4"
Cables Section	4.0 mm ² / 0.006 in ²
Dimensions	1640x992x40 mm / 64.5x39x1.57"
Weight	18 Kg / 39.7 lb
Max. Load	Certified to 5400 Pa

TEMPERATURE CHARACTERISTICS

NOCT**	45±2 °C
Temperature Coefficient of Pmax	-0.43 %/°C
Temperature Coefficient of Voc	-0.32 %/°C
Temperature Coefficient of Isc	0.047 %/°C
Operating Temperature	-40 °C ~ +85°C

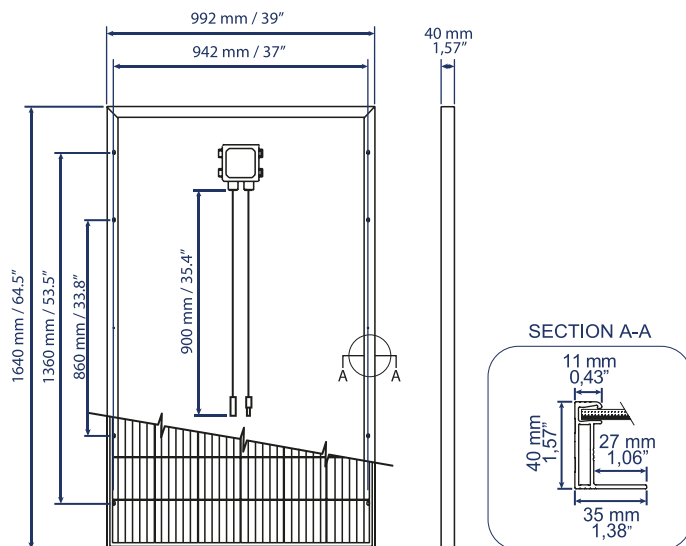
PACKAGING***

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

CERTIFICATIONS

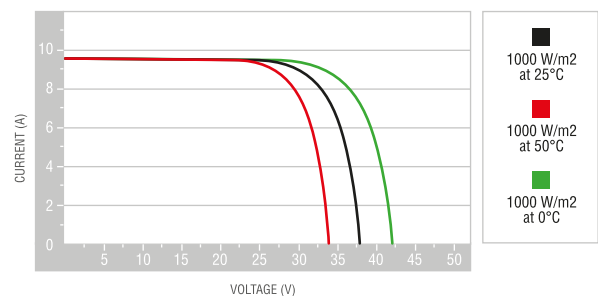
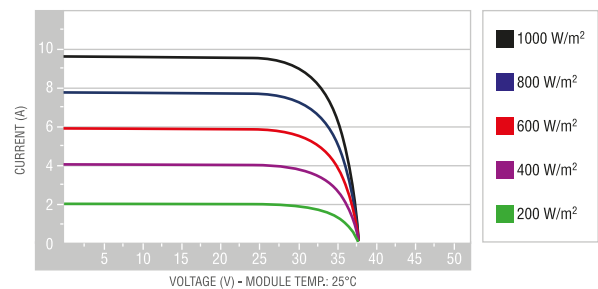
Fire Resistance Rating	1 (UNI 9177)
PID free	IEC TS 62804-1:2015
MCS	KIWA0003

DIMENSIONS



CURRENT/VOLTAGE CHARACTERISTICS

Values apply to modules: SG280P



*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

MODULES ON GRID



MCS Certification



30 YEAR LINEAR POWER WARRANTY
ANNI GARANZIA LINEARE PRODUZIONE

20 YEAR PRODUCT WARRANTY
ANNI GARANZIA PRODOTTO

COMMERCIAL LINE

SG330P

 "MADE IN ITALY" MODULE

PEIMAR polycrystalline solar panels made in Italy provide customers with a perfect combination of high-efficiency and versatility. Thanks to the use of high-quality solar cells, our panels achieve outstanding performance and ensure maximum production output even under poor lighting and weather conditions. The strong yet ultra-light frames, make installation easy but robust in either residential, commercial or large-scale settings.



POSITIVE POWER OUTPUT TOLERANCE



PID FREE



MODULE FIRE PERFORMANCE: CLASS I



ANTI-REFLECTIVE GLASS



HAILSTORM RESISTANCE

CELLS

72
POLY



QTY:
72 CELLS
TYPE:
POLY 5BB
DIMENSION:
156x156 mm / 6x6"

FRAME



BACKSHEET



JUNCTION BOX



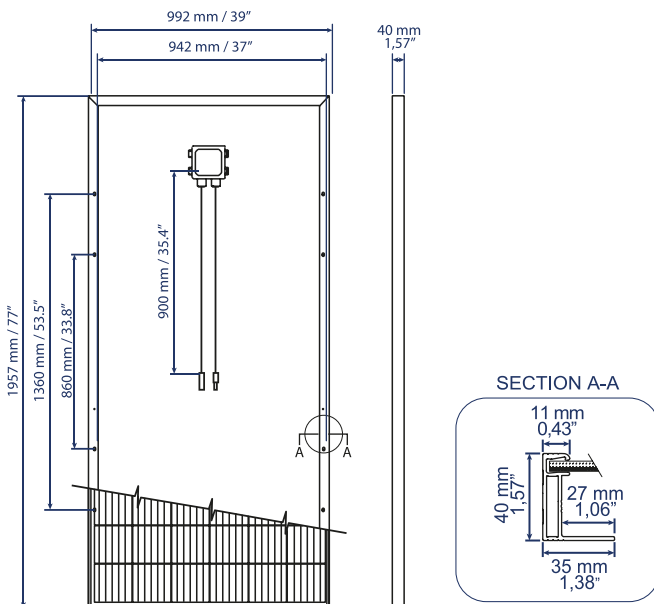
ELECTRICAL CHARACTERISTICS (STC)*

	SG330P
Nominal Output (Pmax)	330 W
Flash Test Power Tolerance	0/+5 W
Voltage at Pmax (Vmp)	36.4 V
Current at Pmax (Imp)	9.07 A
Open Circuit Voltage (Voc)	45 V
Short Circuit Current (Isc)	9.78 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	15 A
Module Efficiency	17.00%

MECHANICAL CHARACTERISTICS

Solar Cells	72 (6x12) polycrystalline
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	Silver
Backsheet finishing	White
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	900 mm / 35.4"
Cables Section	4.0 mm ² / 0.006 in ²
Dimensions	1957x992x40 mm / 77x39x1.57"
Weight	22.5 Kg / 49.6 lbs
Max. Load	Certified to 5400 Pa

DIMENSIONS



TEMPERATURE CHARACTERISTICS

NOCT**	45±2 °C
Temperature Coefficient of Pmax	-0.43 %/°C
Temperature Coefficient of Voc	-0.32 %/°C
Temperature Coefficient of Isc	0.047 %/°C
Operating Temperature	-40 °C ~ +85°C

PACKAGING***

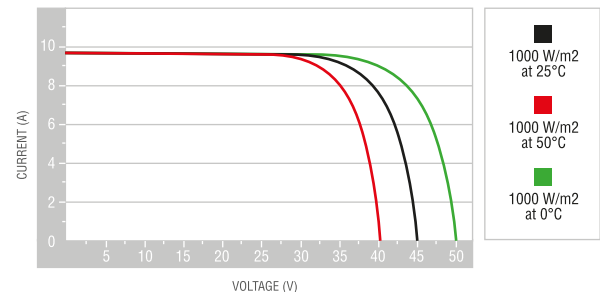
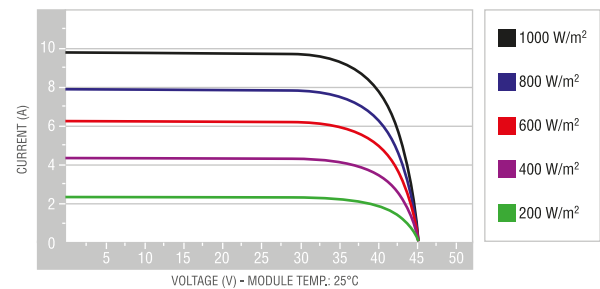
Pallet dimensions	2000x1200x1200 mm / 79x47x47"
Pieces per pallet	27
Weight	622 Kg / 1371 lbs

CERTIFICATIONS

Fire Resistance Rating	1 (UNI 9177)
PID free	IEC TS 62804-1:2015
MCS	KIWA0003

CURRENT/VOLTAGE CHARACTERISTICS

Values apply to modules: SG330P

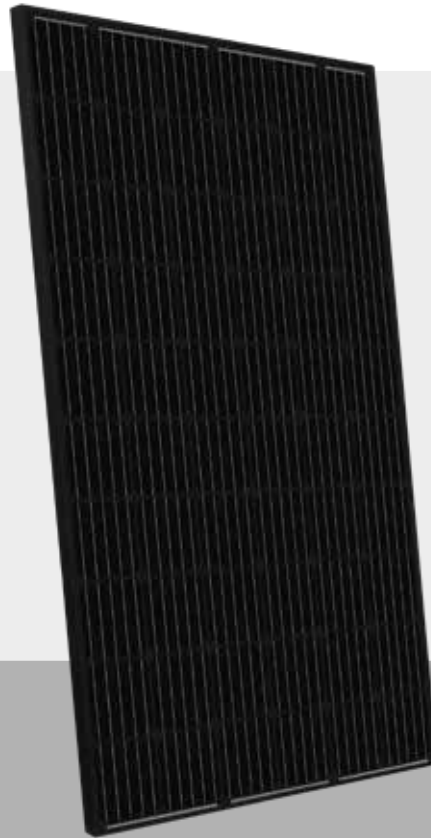


*STC: (Standard Test Condition) Irradiance 1000W/m²; Module Temperature 25°C; Air Mass 1.5

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

***Pallets can be stacked up to two

MODULES ON GRID



MCS Certification



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, backsheet 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)*

Nominal Output (Pmax)
Flash Test Power Tolerance
Voltage at Pmax (Vmp)
Current at Pmax (Imp)
Open Circuit Voltage (Voc)
Short Circuit Current (Isc)
Maximum System Voltage
Maximum Series Fuse Rating
Module Efficiency

SG300M (FB)

300 W
0/+5 W
32 V
9.4 A
40.2 V
9.71 A
1500 V
15 A
18.44%

MECHANICAL CHARACTERISTICS

Solar Cells	60 (6x10) monocrystalline PERC
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 mm ² / 0.006 in ²
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

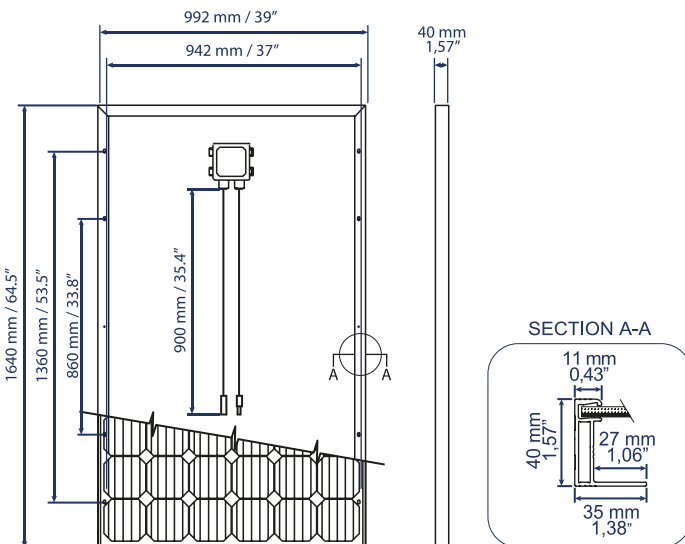
PACKAGING***

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

CERTIFICATIONS

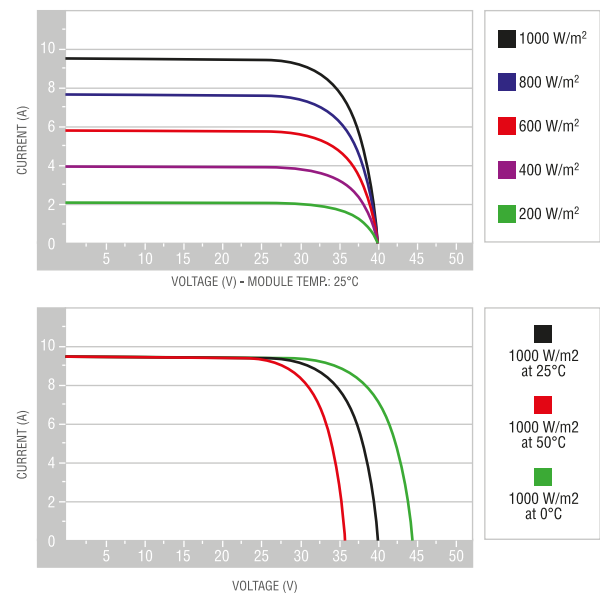
Fire Resistance Rating	1 (UNI 9177)
MCS	KIWA0003

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

MODULES ON GRID



MCS Certification



PERC TECHNOLOGY*
Passivated Emitter and Rear Cell



30 YEAR LINEAR POWER WARRANTY
ANNI GARANZIA LINEARE PRODUZIONE

20 YEAR PRODUCT WARRANTY
ANNI GARANZIA PRODOTTO

HIGH EFFICIENCY LINE

SG300/310M (BF)

"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		
		QTY: 60 CELLS TYPE: MONO 5BB PERC TECHNOLOGY ⚡ DIMENSION: 156x156 mm / 6x6"
FRAME		
BACKSHEET		
JUNCTION BOX		

ELECTRICAL CHARACTERISTICS (STC)*

	SG300M (BF)	SG310M (BF)
Nominal Output (Pmax)	300 W	310 W
Flash Test Power Tolerance	0/+5 W	0/+5 W
Voltage at Pmax (Vmp)	32 V	32.6 V
Current at Pmax (Imp)	9.4 A	9.51 A
Open Circuit Voltage (Voc)	40.2 V	40.7 V
Short Circuit Current (Isc)	9.71 A	9.8 A
Maximum System Voltage	1500 V	1500 V
Maximum Series Fuse Rating	15 A	15 A
Module Efficiency	18.44%	19.05%

MECHANICAL CHARACTERISTICS

Solar Cells	60 (6x10) monocrystalline PERC
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	White
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	900 mm / 35.4"
Cables Section	4.0 mm ² / 0.006 in ²
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	-0.40 %/°C
Temperature Coefficient of Voc	-0.32 %/°C
Temperature Coefficient of Isc	0.047 %/°C
Operating Temperature	-40 °C ~ +85°C

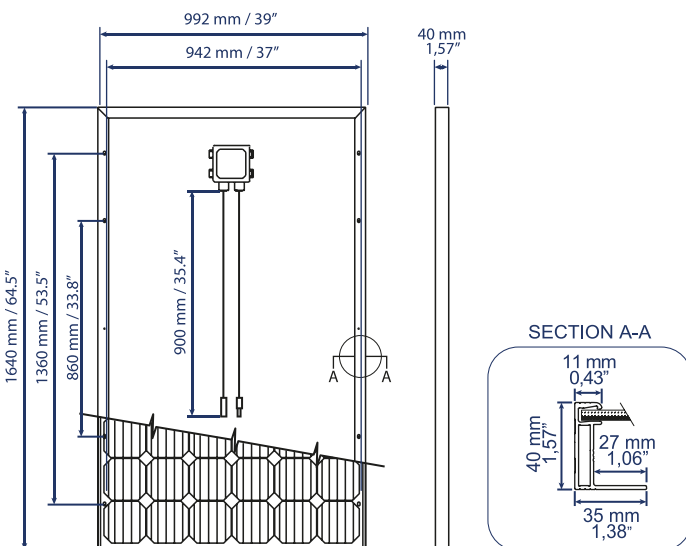
PACKAGING***

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

CERTIFICATIONS

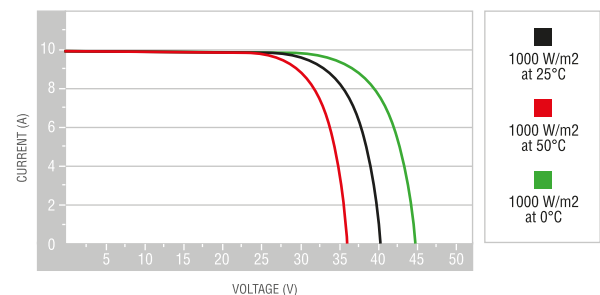
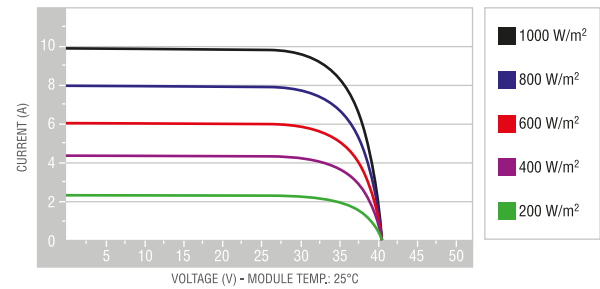
Fire Resistance Rating	1 (UNI 9177)
MCS	KIWA0003

DIMENSIONS



CURRENT/VOLTAGE CHARACTERISTICS

Values apply to modules: SG310M (BF)



*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



MCS Certification



PERC TECHNOLOGY*
Passivated Emitter and Rear Cell



30 YEAR LINEAR POWER WARRANTY
ANNI GARANZIA LINEARE PRODUZIONE

20 YEAR PRODUCT WARRANTY
ANNI GARANZIA PRODOTTO

HIGH POWER LINE

SG360M

 "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 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

72
MONO



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

FRAME



BACKSHEET



JUNCTION BOX



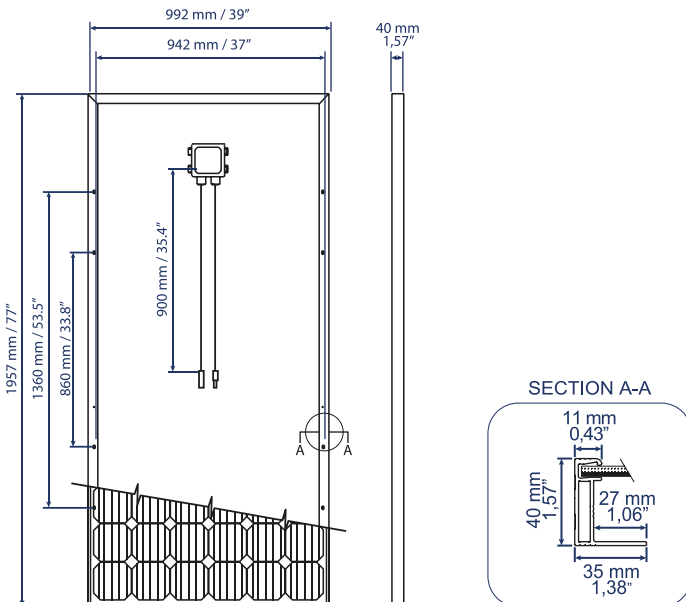
ELECTRICAL CHARACTERISTICS (STC)*

	SG360M
Nominal Output (Pmax)	360 W
Flash Test Power Tolerance	0/+5 W
Voltage at Pmax (Vmp)	38 V
Current at Pmax (Imp)	9.48 A
Open Circuit Voltage (Voc)	46.6 V
Short Circuit Current (Isc)	10.09 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	15 A
Module Efficiency	18.54%

MECHANICAL CHARACTERISTICS

Solar Cells	72 (6x12) monocrystalline PERC
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	Silver
Backsheet finishing	White
Diodes	3 Bypass diodes serviceable
Junction Box	IP67 rated
Connector	MC4 or compatible connector
Cables Length	900 mm / 35.4"
Cables Section	4.0 mm ² / 0.006 in ²
Dimensions	1957x992x40 mm / 77x39x1.57"
Weight	22.5 Kg / 49.6 lbs
Max. Load	Certified to 5400 Pa

DIMENSIONS



TEMPERATURE CHARACTERISTICS

NOCT**	45±2 °C
Temperature Coefficient of Pmax	-0.40 %/°C
Temperature Coefficient of Voc	-0.32 %/°C
Temperature Coefficient of Isc	0.047 %/°C
Operating Temperature	-40 °C ~ +85°C

PACKAGING***

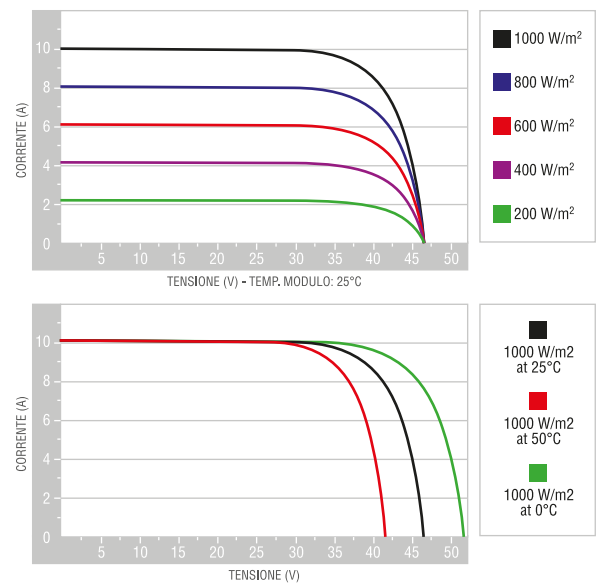
Pallet dimensions	2000x1200x1200 mm / 79x47x47"
Pieces per pallet	27
Weight	622 Kg / 1371 lbs

CERTIFICATIONS

Fire Resistance Rating	1 (UNI 9177)
MCS	KIWA0003

CURRENT/VOLTAGE CHARACTERISTICS

Values apply to modules: SG360M



*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

SMALL LINE OFF GRID



12V DC MODULES
FOR OFF-GRID SOLUTIONS



**SUITABLE FOR: SOLAR KITS,
RVS, BOATS AND CABINS**



MAXIMUM ADAPTABILITY



30 YEAR LINEAR POWER WARRANTY
ANNI GARANZIA LINEARE PRODUZIONE

20 YEAR PRODUCT WARRANTY
ANNI GARANZIA PRODOTTO

CELLS



TYPE:
POLY 3BB-4BB

FRAME



BACKSHEET



ELECTRICAL CHARACTERISTICS (STC)*

	OS10P	OS20P	OS30P	OS50P
Nominal Output (Pmax)	10 W	20 W	30 W	50 W
Voltage at Pmax (Vmp)	16.5 V	18.6 V	17.65 V	17.72 V
Current at Pmax (Imp)	0.61 A	1.08 A	1.70 A	2.83 A
Open Circuit Voltage (Voc)	20 V	22.14 V	21.17 V	21.26 V
Short Circuit Current (Isc)	0.67 A	1.16 A	1.90 A	3.17 A
Module Efficiency	9.84%	10.84%	10.59%	13.61%
Solar Cells	36 (4x9)	36 (4x9)	36 (2x18)	36 (4x9)
Cells Dimensions	52x36mm / 2x1.4"	78x52 mm / 3x2"	156x39 mm / 6x1.5"	156x52 mm / 6x2"
Cable	-	-	50 cm + MC4	50 cm + MC4
Dimensions	415x245x17 mm 16.3x9.6x0.67"	535x345x25 mm 21x13.5x1"	798x355x30 mm 31.4x13.9x1.2"	545x674x30 mm 21.5x26.5x1.2"
Weight	1.3 Kg / 2.86 lbs	2.2 Kg / 4.85 lbs	3.4 Kg / 7.49 lbs	4.2 Kg / 9.26 lbs

ELECTRICAL CHARACTERISTICS (STC)*

	OS80P	OS100P	OS150P
Nominal Output (Pmax)	80 W	100 W	150 W
Voltage at Pmax (Vmp)	17.78 V	17.80 V	17.64 V
Current at Pmax (Imp)	4.50 A	5.62 A	8.51 A
Open Circuit Voltage (Voc)	21.33 V	21.36 V	21.17 V
Short Circuit Current (Isc)	5.03 A	6.26 A	9.51 A
Module Efficiency	12.76%	14.40%	15.04%
Solar Cells	36 (4x9)	36 (4x9)	36 (4x9)
Cells Dimensions	156x93 mm / 6x3.6"	156x104 mm / 6x4"	156x156 mm / 6x6"
Cable	50 cm + MC4	50 cm + MC4	50 cm + MC4
Dimensions	930x674x35 mm 36.6x26.5x1.4"	1030x674x35 mm 40.5x26.5x1.4"	1480x674x35 mm 58.3x26.5x1.4"
Weight	7.15 Kg / 15.76 lbs	8 Kg / 17.64 lbs	9.9 Kg / 21.82 lbs

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

///PEIMAR

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Company Brochure
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