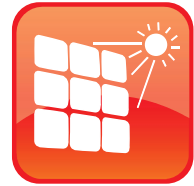




KLOBEN
SOLAR PV



made in italy





Photovoltaic Modules



FEATURES

- High Performance Polycrystalline Modules
- High Stability And Resistance
- Exceptional Module Efficiency
- Continuous Quality Controls
- Excellent Performance even with low radiation
- 3.2 mm Tempered Prismatic Glass
- Fire Reaction Class 1
- Made in Italy Modules

CERTIFICATIONS

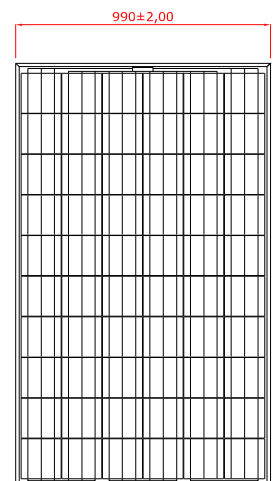
- ISO Certified
- CE Compliant
- IEC Conformity
- TÜV Certified
- Italian 25 Years Warranty



PHOTON 60-250-P

ELECTRICAL FEATURES STC (Standard Test Conditions) : 1000 W/m² at 25°C

Power Rating	Wp	245	250	255	260
Module Efficiency	%	15,04	15,35	15,65	15,96
Rated Voltage	Vm (V)	30,48	30,84	31,14	31,62
Rated Current	Im (A)	08,05	08,15	08,21	08,28
Open Circuit Voltage	Voc (V)	36,90	37,20	37,44	37,80
Short Circuit Current	Isc (A)	08,56	08,64	08,70	08,76
Maximum System Voltage	(VDC)	1000	1000	1000	1000
Max Series Fuse	(A)	16	16	16	16



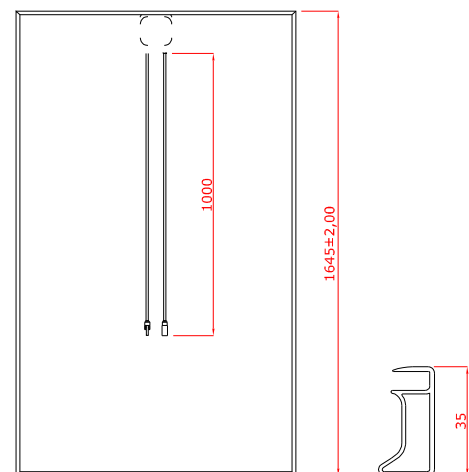
Highly efficient Silicon-Wafer polycrystalline photovoltaic module with power peak from 245 to 260 watts. High stability due to the 3,2 mm tempered glass and aluminium frame. Italian warranty on materials for 10 years and linear warranty on performance for 25 years.

TEMPERATURE FEATURES NOTC

Nominal Operating Cell Temp.	°C	46 +/- 2
Pm Temperature Coefficient	%/°C	- 0,42
Voc Temperature Coefficient	%/°C	- 0,33
Isc Temperature Coefficient	%/°C	0,05
Operating Temperature	°C	- 40 // + 85

MECHANICAL FEATURES

Cell Size	mm	156 x 156
Number Of Cells		60 Polycrystalline Cells
Module Dimensions	mm	1645 x 990 x 35
Module Weight	kg	17,90
Front Glass		3,2 mm Tempered Glass
Frame		Anodised Aluminium Alloy
Junction Box		3 Bypass Diodes
Connectors		IP67 PV4
Output Cables	mm	1000



FEATURES

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- Made in Italy Modules

CERTIFICATIONS

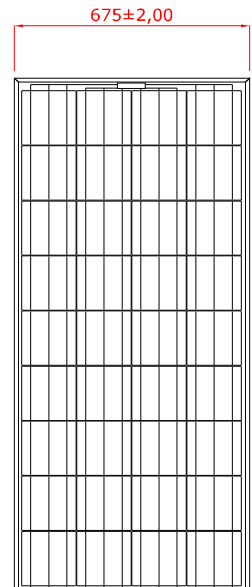
- ISO Certified
- CE Compliant
- IEC Conformity
- TÜV Certified
- Italian 25 Years Warranty



PHOTON 36-150-P

ELECTRICAL FEATURES STC (Standard Test Conditions) : 1000 W/m² at 25°C

Power Rating	Wp	140	150
Module Efficiency	%	14,01	15,01
Rated Voltage	Vm (V)	18,03	18,50
Rated Current	Im (A)	07,97	08,15
Open Circuit Voltage	Voc (V)	21,96	22,32
Short Circuit Current	Isc (A)	08,49	08,64
Maximum System Voltage	(VDC)	1000	1000
Max Series Fuse	(A)	16	16



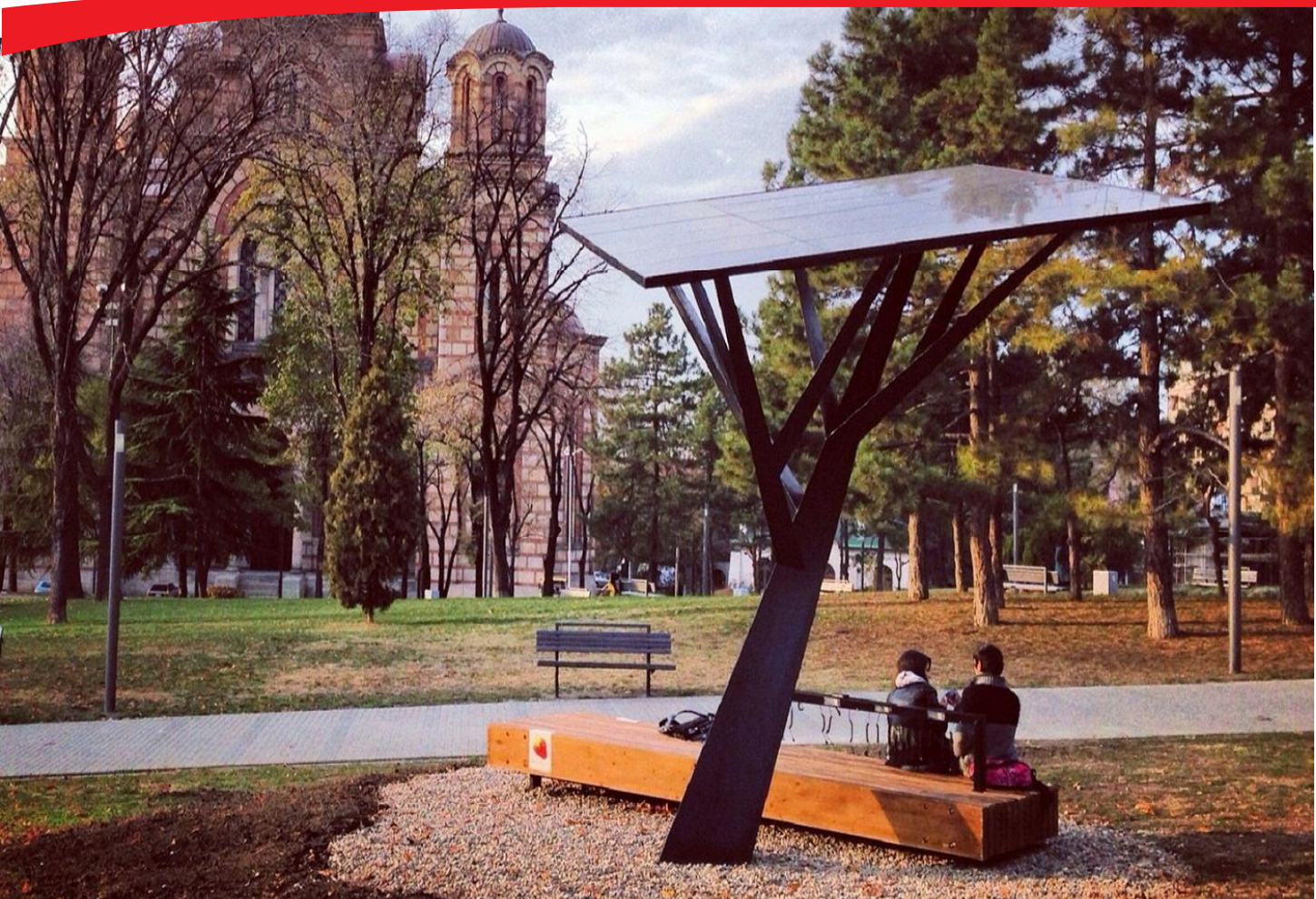
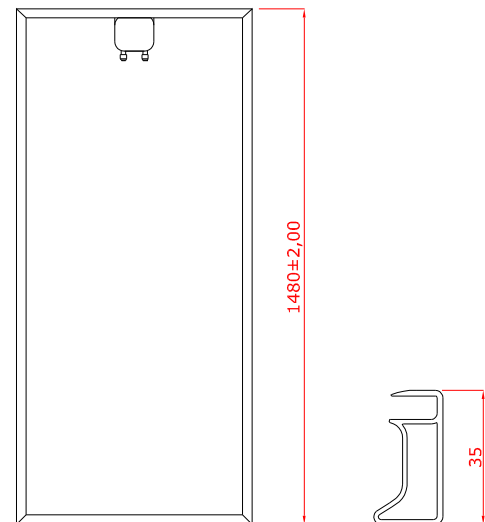
Highly efficient Silicon-Wafer polycrystalline photovoltaic module with power peak from 140 to 150 watts. High stability due to the 3,2 mm tempered glass and aluminium frame. Italian warranty on materials for 10 years and linear warranty on performance for 25 years.

TEMPERATURE FEATURES NOTC

Nominal Operating Cell Temp.	°C	46 +/- 2
Pm Temperature Coefficient	%/°C	- 0,42
Voc Temperature Coefficient	%/°C	- 0,33
Isc Temperature Coefficient	%/°C	0,05
Operating Temperature	°C	- 40 // + 85

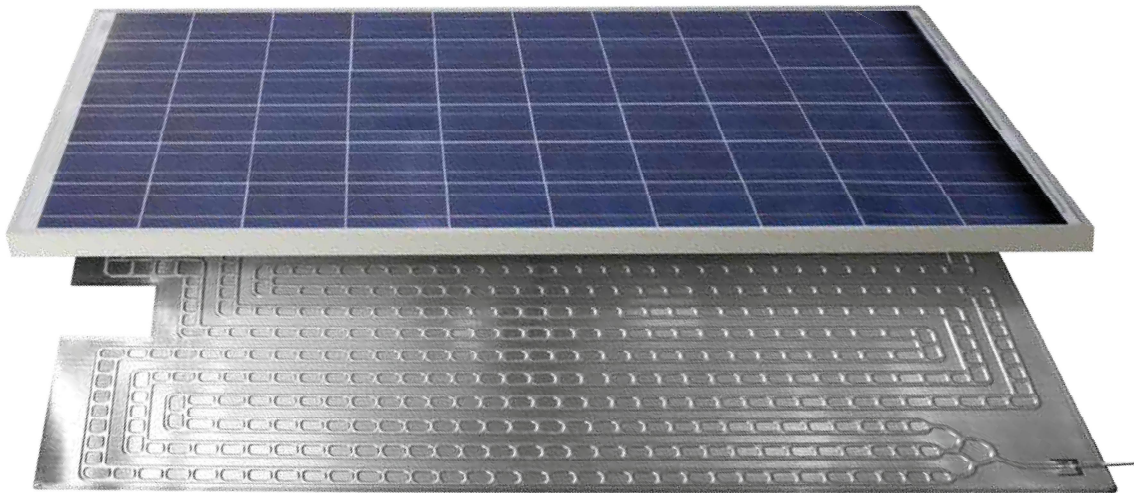
MECHANICAL FEATURES

Cell Size	mm	156 x 156
Number Of Cells		36 Polycrystalline Cells
Module Dimensions	mm	1480 x 675 x 35
Module Weight	kg	11,20
Front Glass		3,2 mm Tempered Glass
Frame		Anodised Aluminium Alloy
Junction Box		2 Bypass Diodes
Connectors		
Output Cables	mm	





PVT Photovoltaic Thermal



Solar thermal can cover the majority of the total heat demand combined with power production. Kloben PVT Hybrid panel is the result of a well-established production process that foresees the construction of panels with various channel configurations by using a sandwich bonding technique, formed using two 99.5% pure aluminum sheets, based on a rolling process and an inflation process. Roll-Bond Technology is the best driver of the Sustainable Energy generation all over the world. Kloben offers to the market the possibility to improve the performance of the photovoltaic modules by its Roll Bond panels as backside of PV modules itself, with a dedicated water-glycol circulation. This system optimizes the operating conditions of PV and produces hot sanitary and or thermal water. The combination of the Roll Bond absorber with PV modules has proven to be the best Hybrid Solar Panel to optimize electrical efficiency. The thermal energy by this solar system can be used to satisfy different needs, such as a partial or complete integration of the heating system also for swimming pools, underfloor heating (low temperature heating) and industrial process too.



PHOTON PVT 60-250-P

ELECTRICAL FEATURES STC

Power Rating	Wp	250
Efficiency	%	14,16
Rated Voltage	Vm (V)	30,20
Rated Current	Im (A)	07,96
Open Circuit Voltage	Voc (V)	37,20
Short Circuit Current	Isc (A)	08,33
Maximum System Voltage	(VDC)	1000

CERTIFICATIONS

- ISO Certified
- CEI-IEC Certified
- CEI-EN Certified
- Solarkeymark Certified
- Italian Warranty



Highly efficient Silicon-Wafer crystalline photovoltaic module with power peak of 250 watts. High stability due to the 3,2 mm tempered glass and aluminium frame. Italian warranty on materials for 5 years and warranty on performance for 25 years.

THERMAL FEATURES

Nominal Operating Cell Temp.	°C	45 +/- 2
Thermal Fluid Content	l	0,88
Flow Rate	l/h	100
Max Pressure	bar	4
Heating Power		0,53

MECHANICAL FEATURES

Inner Frame		Rollbond ALU
Number Of Cells		60 Polycrystalline Cells
Module Dimensions	mm	1640 x 992 x 40
Module Weight	kg	30,00
Front Glass		3,2 mm Tempered Glass
Gross Area		1,63 m2
Aperture Area		1,57 m2
Fluid Connectors		8 x 1,5 mm
Insulation Thickness		30 mm









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