



GENERATION OF NEW ENERGY



HIGH QUALITY PV MODULES

www.pikcellgroup.mk

PiKCELL Group

PiKCELL Group founded in 2018 in Skopje, Republic of North Macedonia is a high tech company for production and development of monocrystalline and polycrystalline photovoltaic solar modules and photovoltaic thermal modules. We believe in the safe future of growing electricity from renewable sources, while at the same time we provide our customers with products that will contribute to a sustainable, economical and profitable supply of electricity

Products

By buying products from our high quality, efficiency and power PiK product range, you become a client of a high-tech and stable company, regional leader in the field of photovoltaic solar module production. The company implements and works based on highest quality standards and certificates.

PiKCELL Group provides professional, fast and reliable support to its customers and is a partner investors can rely on.

Monocrystalline PV module



Polycrystalline PV module



Photovoltaic Thermal module (PVT)



Electrical Specifications @ STC (AM, 5, 1,000W/m², 25°C):

Module Type	CS PVT
Nominal Power	280W
Module Efficiency	17.6%
Power Output Tolerance	±3%
Cell Efficiency	18.1%
Highest thermal power	910W
Length x Width x Thickness	1640mm x 992mm x 45mm
Weight	33kg

PiK Polycrystalline PV Modules

Product model	Cell size	Number of cells	Nominal Power
PiK150P(32)	6"	32	150W
PiK155P(32)	6"	32	155W
PiK160P(32)	6"	32	160W
PiK165P(32)	6"	32	165W
PiK170P(32)	6"	32	170W

Product model	Cell size	Number of cells	Nominal Power
PiK225P(54)	6"	54	225W
PiK230P(54)	6"	54	230W
PiK235P(54)	6"	54	235W
PiK240P(54)	6"	54	240W
PiK245P(54)	6"	54	245W
PiK250P(54)	6"	54	250W

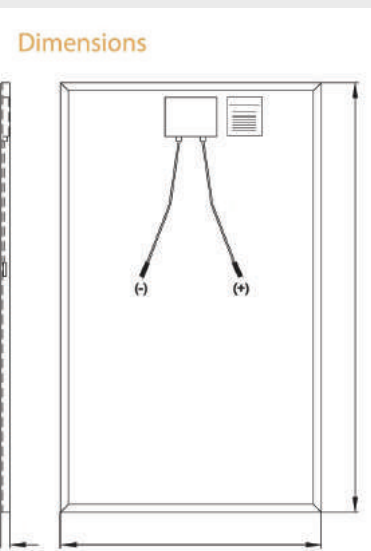
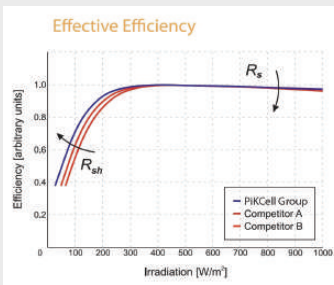
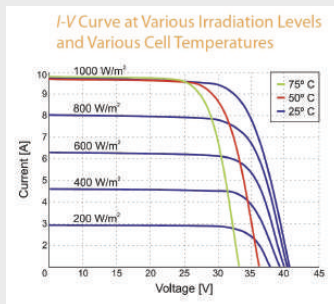
Product model	Cell size	Number of cells	Nominal Power
PiK250P(60)	6"	60	250W
PiK255P(60)	6"	60	255W
PiK260P(60)	6"	60	260W
PiK265P(60)	6"	60	265W
PiK270P(60)	6"	60	270W
PiK275P(60)	6"	60	275W
PiK280P(60)	6"	60	280W

Product model	Cell size	Number of cells	Nominal Power
PiK300P(72)	6"	72	300W
PiK305P(72)	6"	72	305W
PiK310P(72)	6"	72	310W
PiK315P(72)	6"	72	315W
PiK320P(72)	6"	72	320W
PiK325P(72)	6"	72	325W
PiK330P(72)	6"	72	330W
PiK335P(72)	6"	72	335W
PiK340P(72)	6"	72	340W

PiK Polycrystalline PV Modules

Electrical Specifications @ STC (AM, 5, 1,000W/m², 25°C):

Module Type	PiK250P(60)	PiK255P(60)	PiK260P(60)	PiK265P(60)	PiK270P(60)	PiK275P(60)	PiK280P(60)	PiK285P(60)
Nominal Power P _{mpp} (W)	250W	255W	260W	265W	270W	275W	280W	285W
Short Circuit Current I _{sc} (A)	9.18	9.19	9.20	9.22	9.29	9.31	9.45	9.53
Open Circuit Voltage V _{oc} (V)	36.29	36.81	37.08	37.33	38.05	38.30	38.40	38.63
MPP Current I _{mpp} (A)	8.55	8.57	8.62	8.67	8.67	8.73	8.85	8.93
MPP Voltage V _{mpp} (V)	29.32	29.74	30.16	30.57	31.12	31.48	31.61	31.89
Module Efficiency η _m (%)	16.37	16.86	17.29	17.61	17.98	18.30	18.66	18.85



Length 1640 mm
Width 990 mm
Thickness 40 mm

Length 1950 mm
Width 990 mm
Thickness 40 mm

Power Output Tolerance	8.55
Maximum Reverse Current	29.32
Maximum System Voltage	17.00
Additional power classes available upon request. Power measurement tolerance: ~3%	

Thermal Specifications

Current temperature Coefficient	+ 0,046 %/°C
Voltage Temperature Coefficient	- 0.30 %/°C
Power Temperature Coefficient	-0.39 %/°C
NOCT	44 °C
Temperature Range	-40 °C to + 85 °C

Mechanical Specifications

Length x Width x Thickness	1640 mm x 990 mm x 40 mm
Weight	17.2 kg
Solar Cells	60 poly c-Si in series / 156 mm x 156 mm (6+")
Junction Box / Connectors	Five bypass diodes / MC4 compatible / IP 67
Frame	Anodized AL with drainage holes / rigid anchored corners
Glass	3.2 mm glass with anti-reflective coating / tapered / high transparency / low-iron content
Packaging	26 modules per pallet / stackable 2 pallets high
Certified Nominal Load (snow/wind)	5,400 Pa / 2,400 Pa
Impact resistance	Hailstone / φ 25 mm / 83 km/h (51 mph)

All unspecified tolerances are ~3%. Unspecified product properties remain under full discretion of PiKCell Group.

PiK Monocrystalline PV Modules

Product model	Cell size	Number of cells	Nominal Power
PiK155M(32)	6"	32	155W
PiK160M(32)	6"	32	160W
PiK165M(32)	6"	32	165W
PiK170M(32)	6"	32	170W
PiK175M(32)	6"	32	175W
PiK180M(32)	6"	32	180W

Product model	Cell size	Number of cells	Nominal Power
PiK210M(48)	6"	48	210W
PiK215M(48)	6"	48	215W
PiK220M(48)	6"	48	220W
PiK225M(48)	6"	48	225W
PiK230M(48)	6"	48	230W
PiK235M(48)	6"	48	235W
PiK240M(48)	6"	48	240W

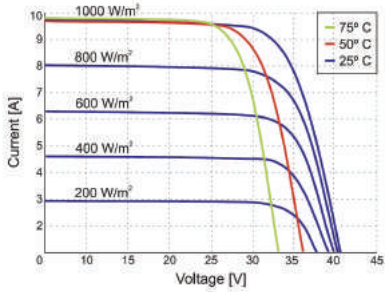
Product model	Cell size	Number of cells	Nominal Power
PiK235M(54)	6"	54	235W
PiK240M(54)	6"	54	240W
PiK245M(54)	6"	54	245W
PiK250M(54)	6"	54	250W
PiK255PM(54)	6"	54	255W
PiK260M(54)	6"	54	260W
PiK265M(54)	6"	54	265W
PiK270M(54)	6"	54	270W

Product model	Cell size	Number of cells	Nominal Power
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PiK265M(60)	6"	60	265W
PiK270M(60)	6"	60	270W
PiK275M(60)	6"	60	275W
PiK280M(60)	6"	60	280W
PiK285M(60)	6"	60	285W
PiK290M(60)	6"	60	290W
PiK295M(60)	6"	60	295W
PiK300M(60)	6"	60	300W

PiK Monocrystalline PV Modules

Electrical Specifications @ STC (AM, 5, 1,000W/m², 25°C):

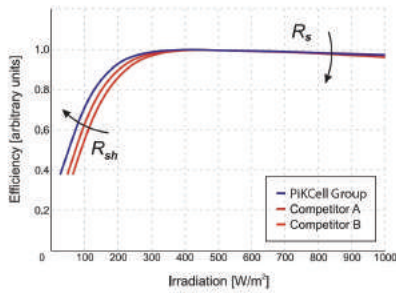
I-V Curve at Various Irradiation Levels and Various Cell Temperatures



Module Type		PiK280M(60)	PiK340M(72)
Nominal Power	P _{mpp} (W)	280	340
Short Circuit Current	I _{sc} (A)	8.98	9.49
Open Circuit Voltage	V _{oc} (V)	39.16	46.35
MPP Current	I _{mpp} (A)	8.23	8.95
MPP Voltage	V _{mpp} (V)	34.33	38.02
Solar Cell Efficiency	η _c (%)	19.9	19.9
Module Efficiency	η _m % (%)	18.6	18.9
Power Output Tolerance		± 3%	
Maximum Reverse Current		18 A	
Maximum System Voltage		1,000 V (Application Class A)	

Additional power classes available upon request. | Power measurement tolerance: ~3%.

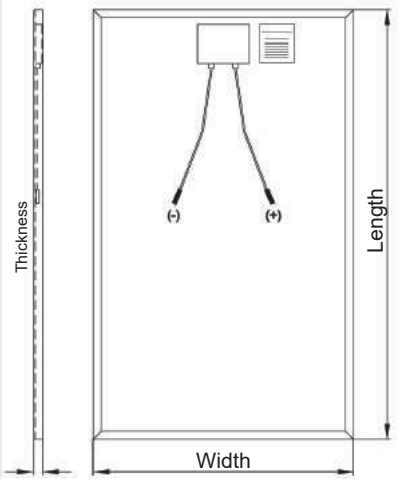
Effective Efficiency



Thermal Specifications

Current temperature Coefficient	+ 0,046 %/°C
Voltage Temperature Coefficient	- 0.30 %/°C
Power Temperature Coefficient	-0.39 %/°C
NOCT	44 °C
Temperature Range	-40 °C to + 85 °C

Dimensions



Length 1640 mm Length 1950 mm
 Width 990 mm Width 990 mm
 Thickness 40 mm Thickness 40 mm

Mechanical Specifications

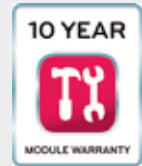
Length x Width x Thickness	1640 mm x 990 mm x 40 mm 1950 mm x 990 mm x 40 mm
Weight	17.2 kg - 20.8 kg
Solar Cells	60 poly c-Si in series / 156 mm x 156 mm (6+)
Junction Box / Connectors	Five bypass diodes / MC4 compatible / IP 67
Frame	Anodized AL with drainage holes / rigid anchored corners
Glass	3.2 mm glass with anti-reflective coating / tempered / high transparency / low-iron content
Packaging	26 modules per pallet / stackable 2 pallets high
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Impact resistance	Hailstone / φ 25 mm / 83 km/h (51 mph)

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Guarantees for PiKCELL Group products

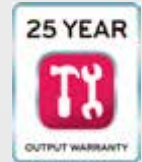
10 years mechanical product warranty

The 10-year mechanical guarantee provided by PiKCELL Group for its products provides you with reliability and peace, because PiKCELL Group will provide repair or replacement of a module in line with the guarantee when necessary.



25 years linear power guarantee

One of the policies of PiKCELL Group is providing a linear guarantee that guarantees module power of 83.3% after 25 years. The linear guarantee allows the buyer to calculate the amount of electricity produced by their system for each of the next 25 years with a high degree of accuracy.



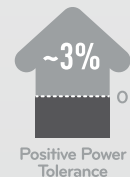
Transferable guarantee

The guarantees given are transferable. This means when the owner sells its PV solar system with installed PiKCELL modules, the new owners of the property will continue to enjoy the protection of the PiKCELL Group guarantee.

Advantages of PiK products

Positive tolerance of output power

PiKCELL Group conducts rigorous quality testing of all solar modules in order to provide the guaranteed nominal power output. Our modules have positive nominal tolerance.



Testing each built-in cell

The basic element of each module is the cell, PiKCELL Group in order to provide the highest quality and guarantee for the produced modules, conducts testing of each cell and thus provides the highest technological standards for durability and efficiency.



100% inspection of modules with EL Tester and Sun Simulator

The production process results with certified and strictly controlled modules that pass rigorous controls through electro luminescence to detect micro cracks invisible to the human eye and sun simulation for controlling the power and efficiency.



Designed for durability

Our solar modules are made with thin, tempered and highly durable glass to be lightweight and at the same time able to withstand heavy loads and pressures up to 5400 Pa, which stands for highest quality. The module's frame is uniquely anodized to increase durability and eliminate damage from moisture, corrosion and other external influences.



Increase of cost of electricity worldwide

We are witnessing a steady upward trend in energy prices. It is predicted that the price of electricity on a global level will have a continuous upward trend. This situation in the future will be burden on the budgets of both households and companies.

PiKCELL Group allows you to reduce your electricity bills and increase your financial power

With a constant increase in electricity prices by investing in solar energy production, you are making the right investment decision. Depending on the size of the system and the prices of electricity, the return on investment in the solar systems is between five and eight years (calculated based on the current price of electricity on the European and world energy exchanges and electricity markets).

As electricity prices increase, the return on investment period is significantly reducing. You will get the highest financial return on your investment if you buy a quality solar system that will give you guaranteed quality and support for decades.

Continuous research, innovations and product improvements

PiKCELL Group has a professional team of engineers constantly working on improvement of our products through continuous research and development. Our company uses the most modern production technology ensuring product reliability and high performance in the coming decades.

Solar photovoltaic power systems based on the principle "turnkey"

We proudly recommend you to buy our European brand of PV modules with worldwide quality, standards and highest quality. In addition to high-quality products, our group provides design and construction of photovoltaic power plants based on "turnkey" principle through the leading companies on the Macedonian and regional market. With the approach of providing highest quality and building partnership relations with customers, to all investors we guarantee development and construction of high-quality solar power systems and safe investment of their resources.

INTERNATIONAL STANDARDS AND CERTIFICATION



IEC 61215:2005, IDT; EN 61215:2005, IDT
IEC 61730-1:2016, IDT; EN IEC 61730-1:2018, IDT
IEC 61730-2:2004, IDT; EN IEC 61730-2:2018, IDT



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Made in Macedonia