

# PVTEC

SUN IS RISING

[www.pvtec.com.pl](http://www.pvtec.com.pl)

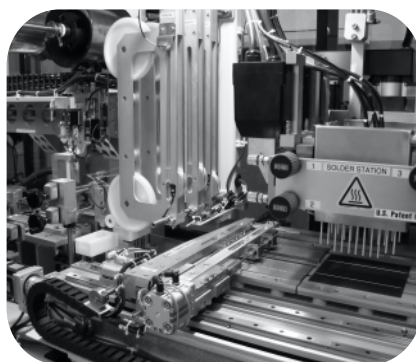
PVTEC Polska Sp. z o. o. is the first Polish company dealing with photovoltaic systems. Company was founded basing on owners experience from Canadian and Swedish market. Our PV module series is designed and produced from the best European and Japanese components. Our production line contains machines of PV branch leaders. Our desire is to reach very high quality of our products with reasonable price.

## The cooperation with PVTEC Polska warrants:

- Reliability
- High product quality
- Flexibility
- Good price
- Knowledge and experience



*"The key to happiness is to have dreams; the key to success is to make dreams come true"*  
James Allen



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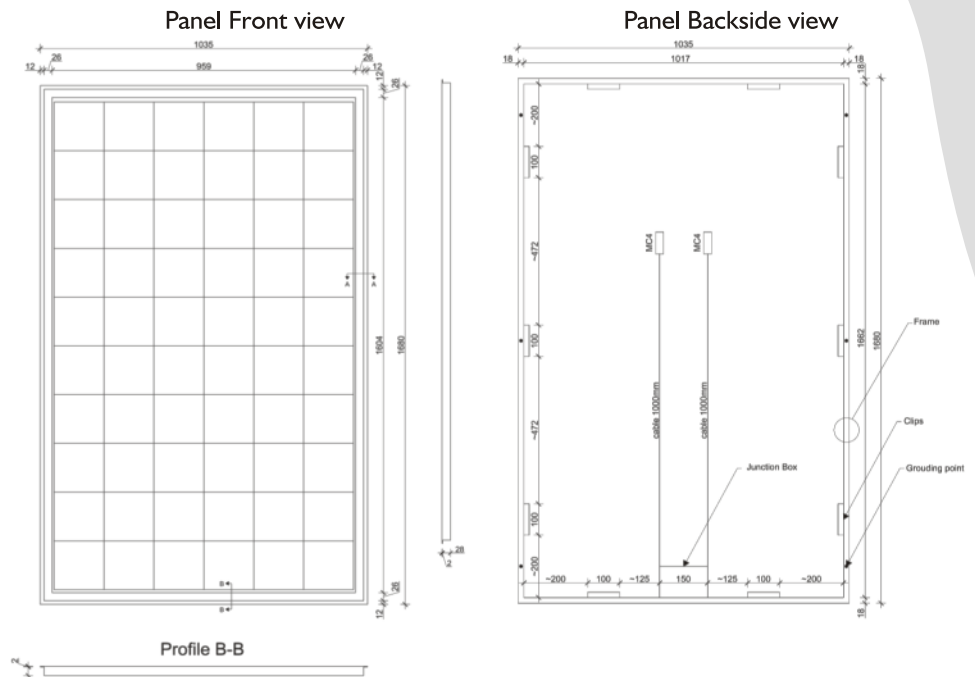
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## Solar modules PV MU 60 series data sheet

Physical parameters	
Length [mm]	1680
Width [mm]	1035
Height [mm]	30
Weight [kg]	21
Frame	Aluminum
Cable	2 x 1m, 4 mm <sup>2</sup>

Components	
Solar cells	156 x 156, poly 60
Encapsulation	EVA foil
Front	4mm ESG glass
Back sheet	KPK
Junction box	IP 65, 3 diodes 12 A
Connectors	MC4 compatible



Electrical parameters at STC(E= 1000 W/m <sup>2</sup> , AM 1.5, 25 °C)							
Module type	=>	PVMU60 210	PVMU60 215	PVMU60 220	PVMU60 225	PVMU60 230	PVMU60 235
Max power	[W]	210	215	220	225	230	235
Power tolerance		-0/+3 %	-0/+3 %	-0/+3 %	-0/+3 %	-0/+3 %	-0/+3 %
Max power voltage	[V]	28.68	28,82	28,96	29.11	29.25	29.34
Max power current	[A]	7.33	7.47	7.60	7.73	7.87	8.01
Open circuit voltage	[V]	36.30	36.48	36.66	36.84	37.02	37.14
Shorted circuit current	[A]	7.96	8.00	8.04	8.08	8.12	8.17
Module efficiency	[%]	12.93	13.23	13.54	13.85	14.16	14.47

### Main features of our PV modules:

- Protection Class II
- Positive power tolerance
- Durability to snow load up to 5400 Pa
- Warranty 25 years for 80% of power
- High durability and stability against UV and weather condition
- Certified according to IEC 61730 and IEC 61215 norms

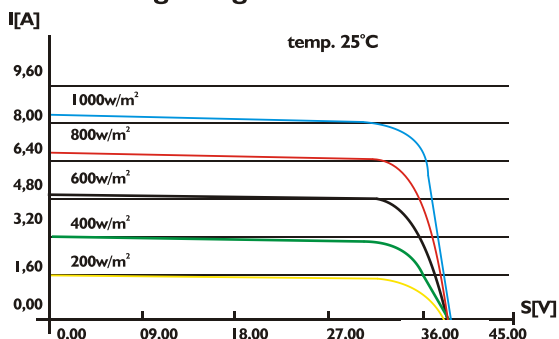
### Thermal characteristics

NOCT	45 °C
TC Isc	0.045 % / °C
TC Voc	-0.0304 % / °C
TC Pmax	-0.420 % / °C
Operating range	-40 °C to 85 °C

### System integration parameters

Max voltage	DC 1000 V
Reverse current	15 A
Application class	A
Max snow load	5400 Pa
Max series	22

### I-V curve regarding radiation



PVTEC Polska Sp. Z o.o. warrants its PV modules as follows:  
 Within 10 years at least 90% of power \*  
 Within 25 years at least 80% of power \*  
 12 years warranty for material defects and workmanship \*

\* You can find detailed information in the PVTEC Polska warranty conditions