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## System overview (Gabrovo, Bulgaria)



### PV-module

Kaneka;  
K 60  
Angle of inclination: 32°  
Azimuth angle: 0°  
Module x String: 5 x 15  
DC-Cabel: Ø 4 mm²;  
2 x 10 m / String

### Inverter

Sunny Mini Central SMC 5000A  
Number: 1  
Max. efficiency: 96.1 %; EU-efficiency: 95.2 %  
Max. DC power: 5.75 kW; Max. AC power: 5.5 kW  
Grid voltage/frequency: 250 V / 50 Hz  
AC-Cabel: Ø 25 mm²; 50 m / Inverter

### Technical data

PV peak power :	4.50 kW
Total number of modules :	75
Area of PV-generator :	72.8 m²
Number of inverters :	1
Max. DC power of inverter :	5.75 kW
Max. AC power of inverter :	5.50 kW
Inverter effectiveness :	95.1 %

Nominal power ratio :	128 %
Yearly en. yield * :	5950 kWh
Energy usability factor :	99.9 %
Performance Ratio * :	82 %
Spec. energy yield * :	1322 kWh/kWp
Cable losses (% in PV-Energy) :	0.1 %

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\* Important note: The calculation of the yield is based on estimated values and mathematical models. SMA is in no case liable for the real yield, which can e.g. deviate due to contamination or different efficiencies of the modules.