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System overview (ZITA Ruse - South PV plant)



-10°C ... 70°C

PV-module

Kyocera;
KC130GHT-2
Angle of inclination: 30°
Azimuth angle: 0°
Module x String: 22 x 2
DC-Cabel: Ø 6 mm²;
2 x 30 m / String

Inverter

Sunny Mini Central SMC 5000A
Number: 12
Max. efficiency: 96.1 %; EU-efficiency: 95.2 %
Max. DC power: 5.75 kW; Max. AC power: 5.5 kW
Grid voltage/frequency: 240 V / 50 Hz
AC-Cabel: Ø 35 mm²; 50 m / Inverter

Technical data

PV peak power :	68.64 kW
Total number of modules :	528
Area of PV-generator :	501.6 m²
Number of inverters :	12
Max. DC power of inverter :	69.00 kW
Max. AC power of inverter :	66.00 kW
Inverter effectiveness :	94.9 %

Nominal power ratio :	101 %
Yearly en. yield * :	89992 kWh
Energy usability factor :	100.0 %
Performance Ratio * :	81 %
Spec. energy yield * :	1311 kWh/kWp
Cable losses (% in PV-Energy) :	0.2 %

Notes: ZITA Ruse - South PV Plant

Total: 528 modules (4 rows x 2 rows x 66 modules)
12 Inverters SMA SMC 5000A x 2 strings x 22 modules Kyocera KC130HGT-2

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