

STS Solar
14 Stancionna Str.
5300 Gabrovo, BULGARIA

Tel.: +359 (66) 817 404
Fax: +359 (66) 817 407
E-Mail: solar@sts.bg
WEB: <http://solar.sts.bg>

System overview (ZITA Ruse - North PV plant)



PV-module

'Solar Swiss;
SSM-150/12M
Angle of inclination: 30°
Azimuth angle: 0°
Module x String: 27 x 2

Inverter

Sunny Mini Central SMC 8000TL
Number: 6
Max. efficiency: 98 %; EU-efficiency: 97.7 %
Max. DC power: 8.25 kW; Max. AC power: 8 kW
Grid voltage/frequency: 240 V / 50 Hz

Technical data

PV peak power :	48.60 kW
Total number of modules :	324
Area of PV-generator :	421.2 m ²
Number of inverters :	6
Max. DC power of inverter :	49.50 kW
Max. AC power of inverter :	48.00 kW
Inverter effectiveness :	97.6 %

Nominal power ratio :	102 %
Yearly en. yield * :	67844 kWh
Energy usability factor :	100.0 %
Performance Ratio * :	86 %
Spec. energy yield * :	1396 kWh/kWp
Cable losses (% in PV-Energy) :	Not considered

Notes: ZITA Ruse - North PV plant

Total: 324 modules (6 rows x 54 modules)

6 Inverters SMA SMC 8000TL x 2 Strings x 27 modules Solar Swiss SSM-150/12M

Signature ' _____

* 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.