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System overview (Bulgaria / Varna)



PV-module

Suntech
STP210-18/Ud
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STP210-18/Ud
Total number of modules: 48

Inverter

1 x Sunny Tripower STP 10000TL-10
Max. efficiency: 98 %; EU-efficiency: 96,5 %
max. DC power ($\cos \varphi = 1$): 10,4 kW
Max. AC power: 10 kVA
Power factor ($\cos \varphi$): 1
Grid voltage/frequency: 230 V / 50 Hz

Technical data

| | |
|--|---------------------|
| PV peak power : | 10,08 kW |
| Total number of modules : | 48 |
| Area of PV-generator : | 71,8 m ² |
| Number of inverters : | 1 |
| max. DC power ($\cos \varphi = 1$) : | 10,40 kW |
| max. AC effective power ($\cos \varphi = 1$) : | 10,00 kW |
| Inverter effectiveness : | 94,8 % |

| | |
|---------------------------------|----------------|
| Nominal power ratio : | 103 % |
| Yearly en. yield * : | 11241 kWh |
| Energy usability factor : | 100,0 % |
| Performance Ratio * : | 83 % |
| Spec. energy yield * : | 1115 kWh/kWp |
| Cable losses (% in PV-Energy) : | Not considered |

Notes: Room for your comments

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.