Check list

Project file: Mateev - .bin

Turkey / Istanbul
Sunny Mini Central SMC 5000A

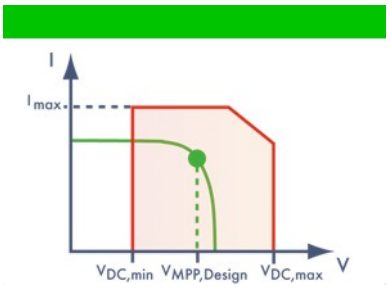
Kaneka
K 60
Angle of inclination: 32°
Azimuth: 0°

Nominal power of PV-generator	4.50 kW	
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	
Grid voltage [V]	250	
Total number of modules	75	
Nominal power ratio	128 %	(x)
String power (input)	4.50 kW	
Power proportion (input)	100 %	
MPP-voltage of string at 15 °C	345 V	(ok)
MPP-voltage of string at 50 °C	311 V	(ok)
MPP-voltage of string at 70 °C	292 V	(ok)
min. MPP-voltage, selected grid voltage: 250 V	267 V	
Open-circuit voltage of string at -10 °C	528 V	(ok)
Max. PV DC voltage permitted	530 V	
Max. current of PV-generator	13.5 A	(ok)
Max. DC current permitted	18.5 A	
Number of strings (inverter: 4 inputs)	15	
Number of modules per string min=5; max=5	5	

PV-module temperatures

Minimum PV temperature :	-10°C
Design temperature :	50°C
Maximum PV temperature :	70°C

PV/Inverter compatible



PV/INVERTER PARTIALLY COMPATIBLE

PV generator configuration and
inverter type are partially compatible,
since the inverter, compared
to standard layouts, has been
exceedingly oversized. (>115%)

SOLUTION OPTIONS:

1. If the nominal output ratio
 has been intentionally selected and
 experience has shown that it produces good yields:
 no change is required!
2. To reach the standard
 range:
  - increase number of modules
 - select inverter with lower power