

Result:

Site Settings and Temperature Data Source		Temperature	
Sun rising	: Sun Ost to East	Clima data base	: yes
Sunlight	: 1200 W/m ² a	Data from:	ROMANIA BISTRITA
Roof pitch or Angle	: 25 Degree	Low Temp for Calculations	: 22 C°
Orientation to the Sun	: 5 Degree	High Module Temp for Calculations	: 47 C°
Type of mounting system	: Roof module with ventilation		

Modules		Inverter	
Database modules	: OSP_250	Rated Output Voltage	: NKI 4000
Rated Power (STC)	: 250 Wp	Number of MPPT's	: 230 VAC
Rated power tolerance (%)	: 1%	Maximum Power Point Tracking (MPPT)	: One
Adjusted Module Voc @ Low Temp	: 36,72 VDC	Maximum Input Voltage	: 120 Min.
Adjusted Module Vmp @ High Temp	: 32,96 VDC	Maximum Input Current	: 145 VDC
Adjusted Module Vmp @ Low Temp	: 29,45 VDC	Maximum Output Current	: 18 VDC
Voc Correction (%/°C)	: 0,32%	Maximum Input Power	: 60 VDC
Vmp Correction (%/°C)	: 0,47%	Maximum design factor for this region	: 4.000 WDC
ISC temp. coefficient (%/°C)	: 0,04%	Maximum input power for this region	: 100 %
			: 4.000 WDC

		Per Inverter	
String Configuration:		2 x 8	OK
Power Rating per MPPT (STC)	:	4.000 W	OK
Adjusted Array Vmp @ High Temp	:	264 VDC	OK
Rated Isc for specified array	:	17,84 ADC	OK
DC Disconnect Calculations	:		
Maximum System Voc @ Low Temp	:	294 VDC	OK
Maximum Vmp @ Low Temp	:	236 VDC	OK
Voltage @ Rated Max Power (Typ. Op. Vmp)	:	239 VDC	OK
Maximum short circuit current	:	9,00 ADC	OK
Maximum power point current (Imp for array)	:	16,85 ADC	OK
Maximum numbers of modules	:	16 Units	

THE USER OF THIS SIZING TOOL HAS ACKNOWLEDGED:

The Solar PV String Sizing Tool is being offered free of charge as a guide only. Ren Power group make no representation or warranty regarding the output of the Solar PV String Sizing Tool or any claim to the actual performance of your system. It is the responsibility of the system design engineer to ensure that the PV module selection and array configuration are appropriate for the system being considered. The user agrees to use this Solar PV String Sizing Tool spreadsheet at their own risk and with the knowledge that ren Power group, will not be liable to the user for any damages, injury or death as a result of use of the Solar PV String Sizing Tool.