RGZ Solar PV String Sizing Tool

Result:

Site Settings and Temperature Data Source			**Temperature**		
Sun rising	:	Sun Ost to East	Clima data base	:	no
Sunlight	:	1200 W/m² a			
Roof pitch or Angle	:	25 Degree			
Orientation to the Sun	:	5 Degree	Low Temp for Calculations	:	10 C°
Type of mounting system	:	Roof module with ventilation	High Module Temp for Calculations	:	65 C°

Modules			**Inverter**	:	NKI 9000
Database modules	:	OSP_270	Rated Output Voltage	:	230 VAC
Rated Power (STC)	:	270 Wp	Number of MPPT's	:	Three
Rated power tolerance (%)	:	5%	Maximum Power Point Tracking (MPPT)	:	60 Min.
			Maximum Input Voltage	:	145 VDC
Adjusted Module Voc @ Low Temp	:	36,14 VDC			
Adjusted Module Vmp @ High Temp	:	35,85 VDC	Maximum Input Current Per MPPT	:	60 VDC
Adjusted Module Vmp @ Low Temp	:	28,91 VDC	Maximum Output Current	:	60 VDC
Voc Correction (%/°C)	:	0,31%	Maximum Input Power	:	9.000 WDC
Vmp Correction (%/°C)	:	0,41%	Maximum design factor for this region	:	100 %
ISC temp. coefficient (%/°C)		0,053%	Maximum input power for this region	:	9.000 WDC

		Per MPPT		**Per MPPT**		**Per MPPT**	
String Configuration:		6 x 2	**OK**	4 x 2	**OK**	6 x 2	**OK**
Power Rating per MPPT (STC)	:	3.240 W	**OK**	2.160 W	**OK**	3.240 W	**OK**
Adjusted Array Vmp @ High Temp	:	072 VDC	**OK**	072 VDC	**OK**	072 VDC	**OK**
Rated Isc for specified array	:	55,92 ADC	**OK**	37,28 ADC	**OK**	37,28 ADC	**OK**
DC Disconnect Calculations	:						
Maximum System Voc @ Low Temp	:	072 VDC	**OK**	072 VDC	**OK**	072 VDC	**OK**
Maximum Vmp @ Low Temp	:	058 VDC	**OK**	058 VDC	**OK**	058 VDC	**OK**
Voltage @ Rated Max Power (Typ. Op. Vmp)	:	062 VDC	**OK**	062 VDC	**OK**	062 VDC	**OK**
Maximum short circuit current	:	9,52 ADC	**OK**	9,52 ADC	**OK**	9,52 ADC	**OK**
Maximum power point current (Imp for array)	:	53,61 ADC	**OK**	35,74 ADC	**OK**	53,61 ADC	**OK**
Maximum numbers of modules	:	33 Units					