Result page SysCalc

The following system configuration was designed using the Mastervolt PV System Calculator
The system design is based on the following data.

location :	Europe - east
module temperature :	-20°C - 70°C
orientation :	S
gradient :	30°

inverter : XS6500 IP44

-	suggested PV power :	4000-7000 Wp
-	number of MPP-inputs :	2
-	no. of strings by MPP-input :	2
-	nominal DC power :	5265W
-	max. DC voltage :	600V
-	MPP voltage :	180-480V
-	max. DC current :	2 x 15A
-	max. efficiency :	96.0%
-	EU efficiency :	95.0%
-	protection Degree :	IP44

module : Trina Solar : TSM-170D 72Cells

specifications at STC (25°C / 1.000W m²) :

-	nominal power :	170.0 W	W
-	open circuit voltage :	44.4V	V
-	MPP voltage :	37.0V	V
-	short circuit current :	4.88A	A
-	MPP current :	4.59A	A

The following configuration was set :

	input 1	input 2		
modules per string :	5	7		
no. of strings :	3	2		
Total number of modules :	29			

Key configuration data :

	input 1	input 2		
Pnom @ 25°C :	2550 W	2380 W		
Total Pnom :	4930 W			
Result. Underdim. Fact. (UDF) :	1.03	1.11		
Uoc at -20°C :	256.1 V	358.5 V		
Umpp at 70°C :	156.8 V	219.5 V		
Impp at 70°C :	13.77 A	9.18 A		