

Project Name : Instalacja PV
Project No. :

Location : Europe/Poland/Rogalin
Grid Voltage : 400V(230V/400V)

System Overview

15 × Bluesun BSM330M-60(PV1)
Azimuth : 6°, Tilt : 45°, Peak Power : 4.95kWp
16 × Bluesun BSM330M-60(PV2)
Azimuth : 6°, Tilt : 45°, Peak Power : 5.28kWp
1 × SUN2000-8KTL-M0

Technical Specifications

Total Number of PV Modules:	31	Annual Energy Yield (Approx.):	12.83MWh
Peak Power:	10.23kWp	Available Energy Coefficient:	0.0%
Number of Inverters:	1	Performance Ratio (Approx.):	86.43%
Rated AC Power:	8.0kW	Specific Energy(Approx.):	1253.89kWh/kWp/year
DC/AC:	1.28	Cable Loss (in % of PV Energy):	0.33%
Annual Self-use Rate:	15.28%		

Signature: _____

*Note: The displayed energy yield is an estimated value, and is calculated through a formula. SmartDesign is not liable for any difference between the actual energy yield and the displayed value. The difference depends on various conditions, such as the PV module stains or efficiency fluctuation.

Design evaluation

Group1

1XSUN2000-8KTL-M0

Peak Power:	10.23kWp
Total Number of PV Modules:	31
Number of Inverters:	1
Max. AC active power($\cos\phi=1$):	8.0kW
Grid Voltage:	400V(230V/400V)
DC/AC:	1.28



SUN2000-8KTL-M0

Input MPPT A : PV1

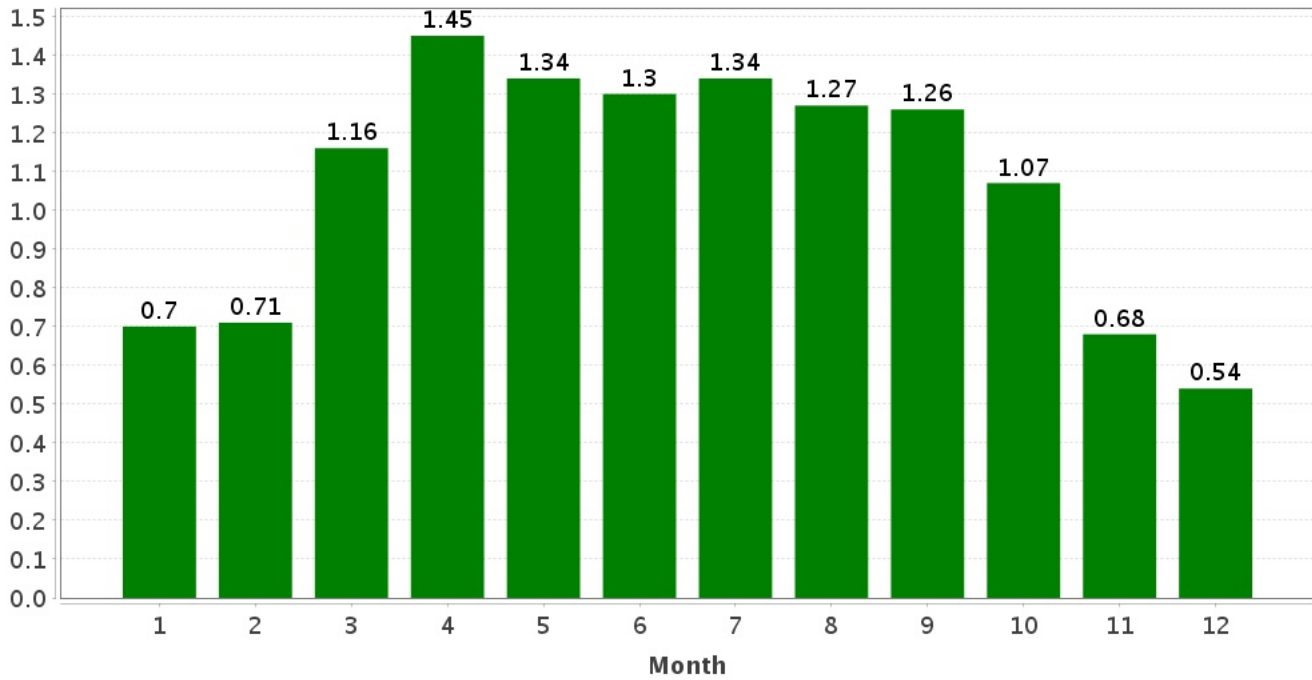
15 × Bluesun BSM330M-60, Azimuth : 6°, Tilt : 45°

Input MPPT B : PV2

16 × Bluesun BSM330M-60, Azimuth : 6°, Tilt : 45°

	MPPT A	MPPT B
Number of PV Strings:	1	1
PV Modules per String:	15	16
PV String Peak Power (input):	4.95kWp	5.28kWp
Normal PV String Voltage:	507.0V	540.8V
Min. PV String Voltage:	✓ 472.1V	✓ 503.5V
Min. Inverter DC Voltage (Power Grid Voltage 400V):	200.0V	200.0V
Max. PV String Voltage:	✓ 714.9V	✓ 762.6V
Max. DC Voltage:	1100.0V	1100.0V
Max. PV String Current:	✓ 9.77A	✓ 9.77A
Max. Inverter DC Current:	11.0A	11.0A

Monthly Energy Yield (MWh)



	Number of PV Inverters	PV Inverter Rated AC Power	Total Number of PV Modules	Peak Power
Instalacja PV	1	8.0 kW	31	10.23 kWp
Generator mocy	1	8.0 kW	31	10.23 kWp
Group1	1	8.0 kW	31	10.23 kWp
	✓ DC Power Cable		✓ AC Power Cable	Total
Power Loss under Rated Conditions	16.7W		17.5W	34.21W
Relative Power Loss at Rated Voltage	0.16 %		0.22 %	0.38 %
Cable Cross-sectional Area	4 mm ²		4 mm ²	4 mm ²