

Project Szkoła Podstawowa Medzichowo

Date 11.10.2022

Reference GR2

Description Szkoła

Address Szkolna 6, 64-361 Medzichowo, Polska

Latitude 52,3741170

Longitude 15,9595770

Altitude 62,62

	Pole fotowoltaiczne 0	Pole fotowoltaiczne 1
Installation type	Roof	Roof
Tilt	0,00°	0,00°
Azimuth	0,00°	0,00°
Producer	FuturaSun srl	FuturaSun srl
Model	FU 380 M Silk Pro	FU 380 M Silk Pro
N. modules	33	33
Total power	12,54 kWp	12,54 kWp
Min Temperature	-14,6 °C	-14,6 °C
Max Temperature	57,02 °C	57,02 °C

Pole fotowoltaiczne 0

Nominal power	380,00 W	Open Circuit Voltage Voc	41,60 V
Short-circuit current Isc	11,47 A	Nominal voltage Vmp	34,64 V
Nominal current Imp	10,97 A	Temperature Coefficient of Voc	-0,28 %/°C
Temperature Coefficient of Isc	0,05 %/°C	Temperature Coefficient of Pmax	-0,35 %/°C

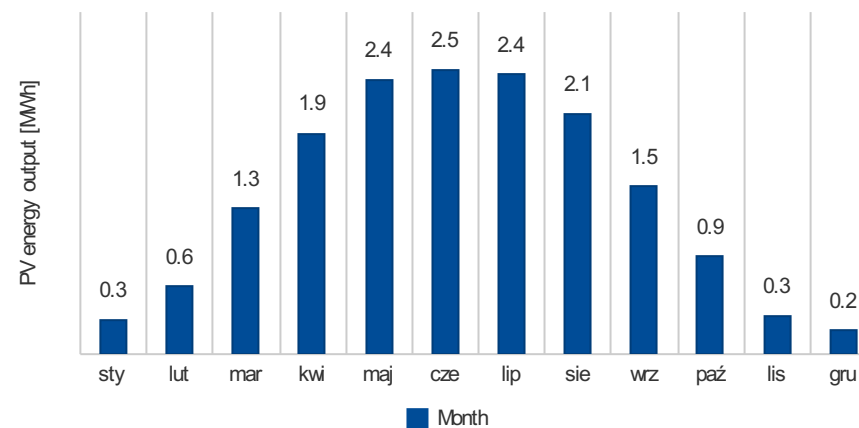
Pole fotowoltaiczne 1

Nominal power	380,00 W	Open Circuit Voltage Voc	41,60 V
Short-circuit current Isc	11,47 A	Nominal voltage Vmp	34,64 V
Nominal current Imp	10,97 A	Temperature Coefficient of Voc	-0,28 %/°C
Temperature Coefficient of Isc	0,05 %/°C	Temperature Coefficient of Pmax	-0,35 %/°C

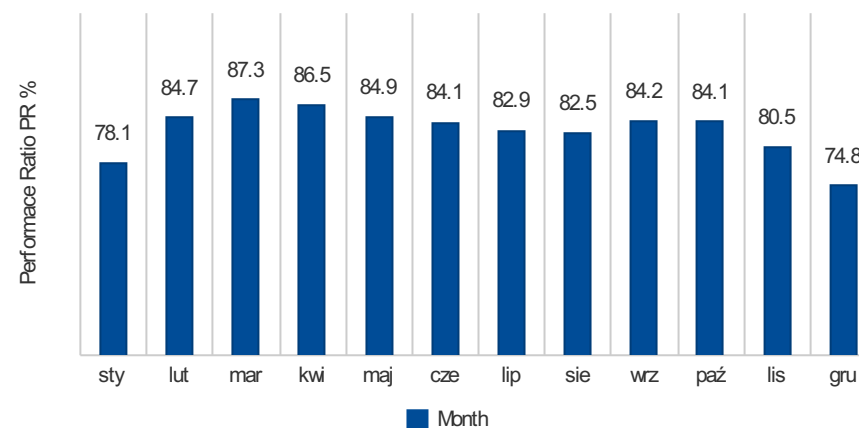
Summary

Yearly energy production	16,42 MWh	Specific Production	654,65 kWh/kWp
DC nominal power	25,08 kWp	AC nominal power	25,00 kWp
Horizontal Irradiation	1 020,62 kWh/m²	Tilted irradiation	1 082,49 kWh/m²
Meteo data provider	Meteonorm	Performance Ratio PR	84,04%

Annual energy production



Performance Ratio PR



Inverter 1



Model	3PH 25000TL-V2-3PH 25000TL-V2
AC nominal power	25 kW
Rated voltage	620 V
Number of MPPT channel	2
Total modules number	49
Installed DC power STC	18,62 kW

	MPPT 1	MPPT 2
PV field	PV field 2	PV field 1
Modules per string	11	8
Number of strings in parallel	3	2
Total modules number	33	16
Installed STC power MPPT [kW]	12,54	6,08
Power limit MPPT [kW]	16	16
PPV(inst),MPPTi/PMPTMAX	0,78	0,38
PPV(inst)/PACR	74,48%	
PPV(inst)/PACMAX	68,96%	
Maximum inverter input voltage	1100	1100
Activation voltage	250	250
Operating range MPPT at maximum power	460 - 850	460 - 850
Voc_Max String open circuit @Min.Temp	508,34	369,70
Voc_Min String open circuit @Max.Temp	416,57	302,96
Vmp_Max Voltage mp string @Min.Temp	423,29	307,85
Vmp_Min Voltage mp string @Max.Temp	346,88	252,27
DC Max Isc current	35	35
DC Isc current @Max.Temp	34,96	23,31
Max Imp current	28	28
Max Imp current @Max.Temp	33,44	22,29