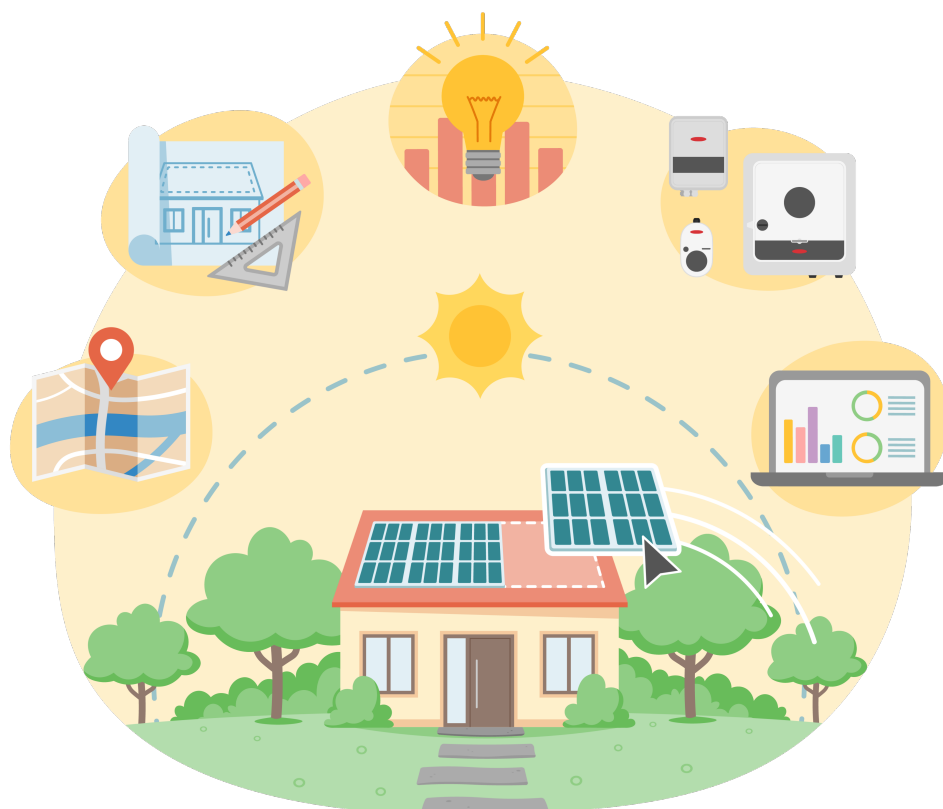




Referensanläggning Hemsida (Lantbruk)



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Fusing recommendation based on IEC 60364-7-712:2016. Deviations due to country specific requirements by utilities or authorities may occur.

[Link to report](#)

Referensanläggning Hemsida (Lantbruk)

Customer

Name

Phone

E-Mail address

Contact person

Company

PFA Solteknik AB

Address

Högelidsvägen 9, Vårsås

Name

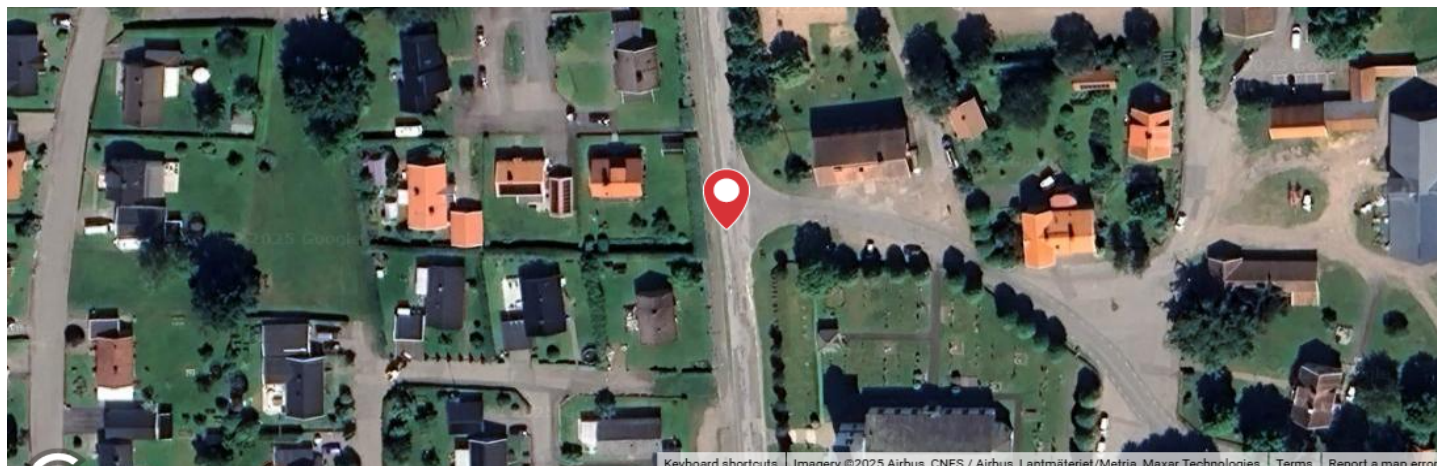
PFA Solteknik AB Solteknik AB

Contact

pfasolteknik@gmail.com

Project location

Ängslyckevägen, 541 78 null, Sweden



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PV system overview

General



988 kWh/m²

Yearly irradiance



3-ph

Grid



120,000 kWh/Year

Energy Consumption



1.90 kr/kWh

Cost of energy

Power



53,113 kWh

Yearly Yield



50.00 kWp

PV Power



64%

Self-Consumption



28%

Self-Sufficiency

Profitability



64,709 kr/Year

Savings own consumption



9,528 kr/Year

Gain from feed-in



5 Years and 8 Months

Return on investment



31 t/Year

CO₂ Savings



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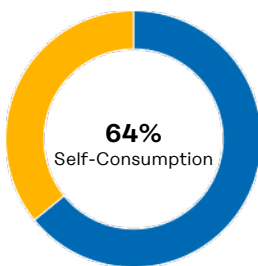
Energy Flow

Energy Flow



Production

Total: 53,113 kWh (100%)


34,057 kWh

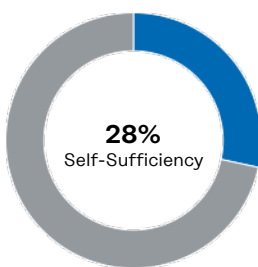
● Direct use (64%)

19,055 kWh

● Power to grid (36%)

Self-Sufficiency

120,000 kWh (100%)


85,943 kWh

● Power from grid (72%)

34,057 kWh

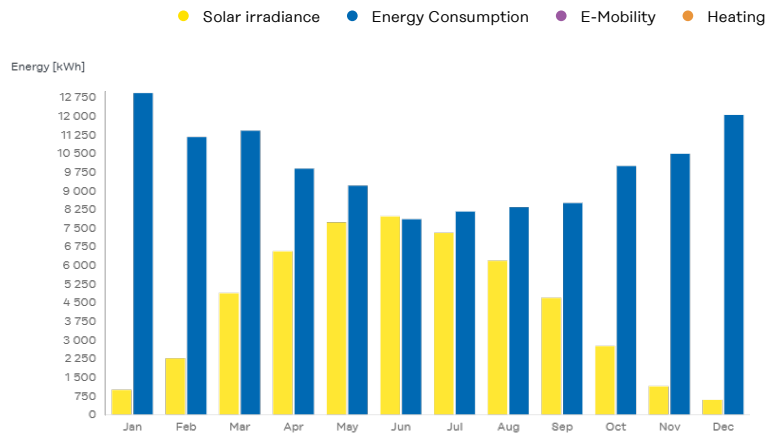
● Direct use (28%)



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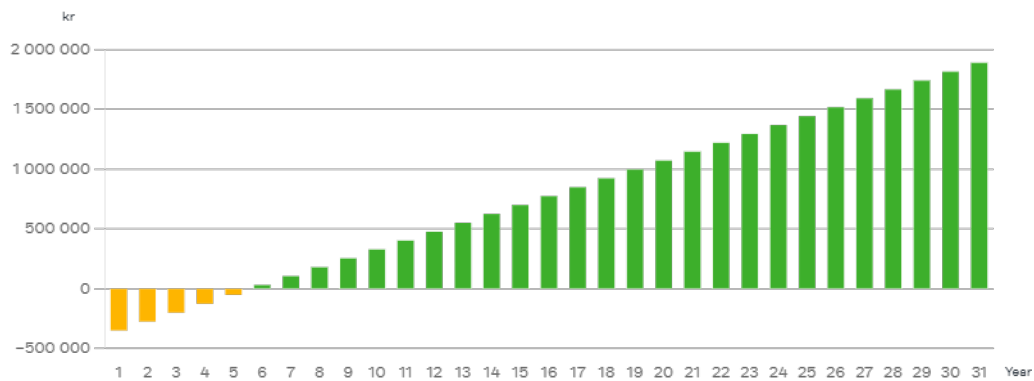
Fusing recommendation based on IEC 60364-7-712:2016. Deviations due to country specific requirements by utilities or authorities may occur.

Annual Overview



Amortization Diagram

1,881,337 kr



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PV arrays

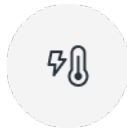
Total Power: 50.00 kWp

Total Amount of modules: 100



25 °

Module tilt



180 °

Module orientation



100 x Eurener

Modules
(274458)



50 kWp

PV Power



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Inverter

Total AC power: 47.50 kVA

Total Amount of Inverters: 2 Piece

Result type: Automatically

Symo Advanced 17.5-3-M


109%

Inverter ratio


19.00 kW

MPP power at 25°C


1 x 19

Strings x Modules


1 x 19

Strings x Modules

MPPTs details	PV1	PV2
PV Array	1 x 19	1 x 19
PV arrays	PV Array 1	PV Array 1
Modules	Nexa TOPCon N-Type Eurener MEPV 500	Nexa TOPCon N-Type Eurener MEPV 500
MPP power at 25°C	9.50 kWp	9.50 kWp
Open circuit voltage at 70°C	720.06 V	720.06 V
Open circuit voltage at -10°C	900.84 V	900.84 V
MPP voltage at 70°C	580.03 V	580.03 V
MPP voltage at 0°C	738.22 V	738.22 V
Short circuit current at 25°C	14.52 A	14.52 A
MPP circuit current at 25°C	13.94 A	13.94 A
String fuses required	No	No
String combiner / Y-connector required	No	No
Yield loss	No	No



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Inverter

Total AC power: 47.50 kVA

Total Amount of Inverters: 2 Piece

Result type: Automatically

Verto 30.0


103%

Inverter ratio


31.00 kW

MPP power at 25°C

MPPTs details	PV1	PV2	PV3	PV4
PV Array	1 x 21	1 x 21	1 x 20	0 x 0
PV arrays	PV Array 1	PV Array 1	PV Array 1	
Modules	Nexa TOPCon N-Type Eurener MEVP 500	Nexa TOPCon N-Type Eurener MEVP 500	Nexa TOPCon N-Type Eurener MEVP 500	
MPP power at 25°C	10.50 kWp	10.50 kWp	10.00 kWp	0.00 kWp
Open circuit voltage at 70°C	795.85 V	795.85 V	757.96 V	0.00 V
Open circuit voltage at -10°C	995.67 V	995.67 V	948.26 V	0.00 V
MPP voltage at 70°C	641.08 V	641.08 V	610.56 V	0.00 V
MPP voltage at 0°C	815.92 V	815.92 V	777.07 V	0.00 V
Short circuit current at 25°C	14.52 A	14.52 A	14.52 A	0.00 A
MPP circuit current at 25°C	13.94 A	13.94 A	13.94 A	0.00 A
String fuses required	No	No	No	No
String combiner / Y-connector required	No	No	No	No
Yield loss	No	No	No	No

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Components

Smart Meter



1 x Smart Meter IP

Model



**208V, 220V, 240V,
400V (380V),
440V, 480V,
400V, 380V**

Nominal voltage



3 x 5,000 A

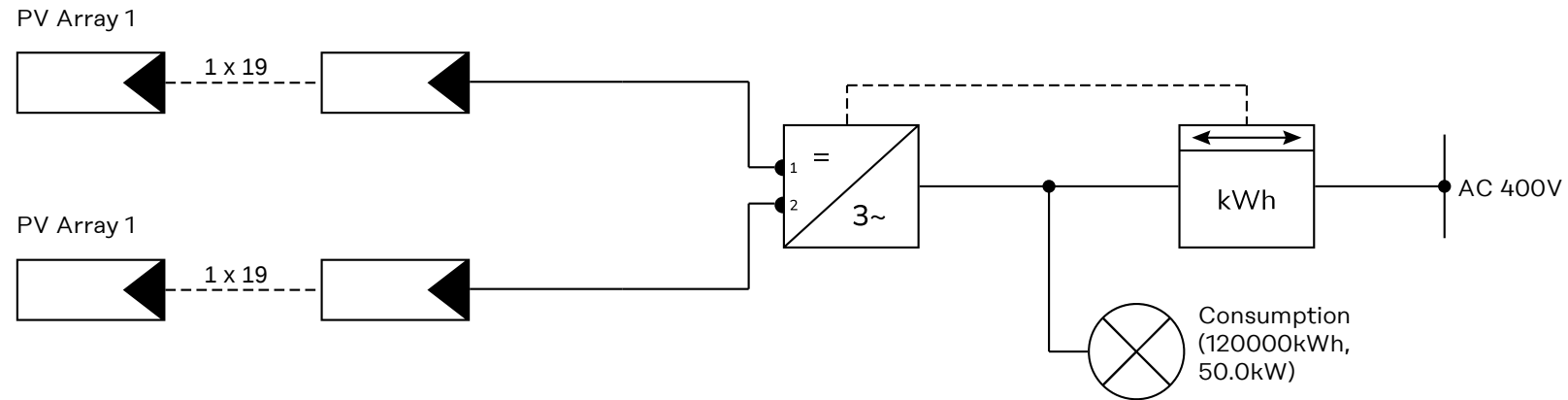
Max. current



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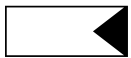
Fusing recommendation based on IEC 60364-7-712:2016. Deviations due to country specific requirements by utilities or authorities may occur.

Single line diagram



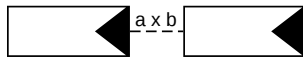
Legend

(i) PV module



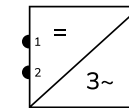
(0) Eurener, MEPV 500 Nexa TOPCon N-Type, 500Wp

PV arrays



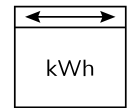
Quantity: a Strings x b Modules
PV Array 1 1: 1 x 19 PV module, 9.5kWp
PV Array 1 2: 1 x 19 PV module, 9.5kWp

Inverter

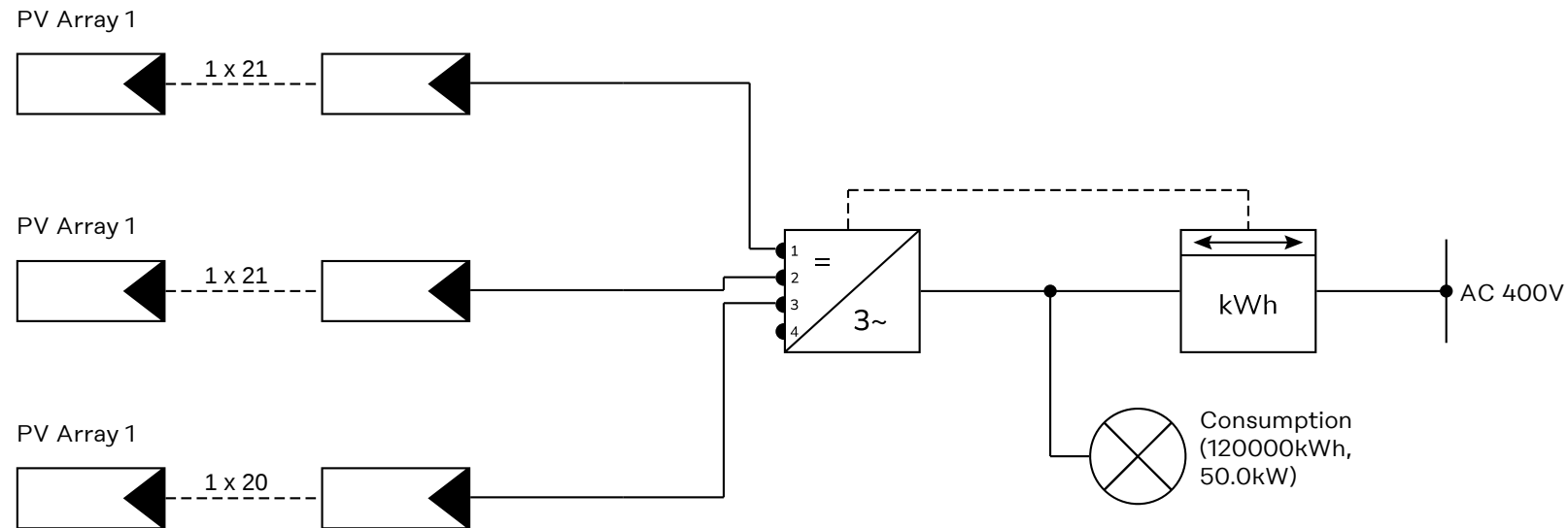


1xSymo Advanced 17.5-3-M

Smart Meter



Single line diagram



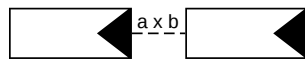
Legend

(i) PV module



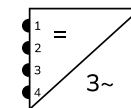
(0) Eurener, MEPV 500 Nexa TOPCon N-Type, 500Wp

PV arrays



Quantity: a Strings x b Modules
 PV Array 1 1: 1 x 21 PV module, 10.5kWp
 PV Array 1 2: 1 x 21 PV module, 10.5kWp
 PV Array 1 3: 1 x 20 PV module, 10kWp

Inverter



1xVerto 30.0

Smart Meter

