BASEL
ENGINEERING SERVICES

Instructions:

1. Provide minimum required information, including main component model numbers.
2. Type "DC" to questions that will be left to designer's decision.

PROJECT INFORMATION *

Name	
Last Name	
Phone	
Address	
Property #	

SELECT TYPE OF PROJECT*

Please select type of installation:

- Net metering / grid tie ◯
- Bimodal ◯
- Standalone ◯

SOLAR CONTRACTOR*

Company	
Phone	
Address	
Owner	
Email	

STRUCTURAL INFORMATION

TYPE OF ROOF

- Flat Roof ◯
- Inclined Roof ◯
- Shingles or Wood ◯
- Concrete ◯
- Metal Roof ◯

PROJECT MANAGER *

Name	
Last Name	
Phone	
Email	

RACKING SYSTEM INFORMATION *

Provide brand and part numbers of structural racking system that contractor plans on using for project. Designer will specify final number of penetrations.

Racking syst. brand	
Racking part number	
Attachment brand	
Attachment part numb	
Rail distance span	
Pitch (degrees)	
Azimuth	

REQUIRED PICTURES CHECKLIST *

- ◯ Power Meter (location)
- ◯ Main Electrical Panel
- ◯ Electrical Sub-panel (1)
- ◯ Electrical Sub-panel (2)
- ◯ Electrical Sub-panel (3)
- ◯ Roof
- ◯ Proposed location of Inverter
- ◯ Proposed location of PV Module

AHJ for permits *

AHJ/ City/Cty	
Utility Co.	

ELECTRICAL INFORMATION

PV MODULE BRAND *

Brand
P/N
Quantity

INVERTER BRAND *

Brand
P/N
Quantity

OPTIMIZER BRAND (IF REQUIRED)

Brand
P/N
Quantity

DC DISCONNECT

- ◯ Integrated toinverter
- ◯ Standalone/ independent

LOCATION OF STANDALONE DC DISCONNECT

- ◯ Exterior
- ◯ Interior

INVERTER LOCATION

Select location of inverter

- ◯ Roof (microinverter)
- ◯ _____ (central)

MODULE TO INVERTER DC TRAMSITION

Select type of transition

a. Generic Junction Box ◯

Specify size, NEMA rating and manufacturer.

Typically used with central inverters

b. Combiner Box ◯

Specify manufacturer and P/N.

Typically used with central inverters

c. Microinverter Cable ◯

Typically used with micro inverters.

COMBINATION OF AC CIRCUITS

Select method of combining inverter AC output.

a. Generic Junction Box ◯

Specify size, NEMA rating and manufacturer.

b. Combiner Box ◯

Specify manufacturer and P/N.

c. Main AC panel ◯

Specify location in layout/plot plan

d. Sub-Panel ◯

Specify location in layout/plot plan

AC SERVICE DISCONNECT

Select if a Service disconnect is required.

a.AC Disconnect YES ◯ NO ◯

b. Service Disconnect location

Exterior ◯
Interior ◯

c. Disconnect brand and p/n

MAIN AC PANEL INFORMATION

Provide AC panel information

a. BUS Rating (A) .....

b. Main Breaker Rating(A) .....

c. Spaces Available in Main Panel? YES ◯ NO ◯

d. Main breaker Location

Top fed ◯
Center fed ◯
Bottom fed ◯

e. Main AC panel Location

Interior ◯
Exterior ◯
Kitchen ◯
Garage ◯

INTERCONNECTION STRATEGY

Pick one. Final strategy will depend on designer's analysis.

a. Load side Tap ◯

b. Line side Tap ◯

c. Other ◯

In case of a Load side Tap.

a. Will the main breaker be derated?

SI ◯
NO ◯

ENTRADA CONEXION ELECTRICA UTILIDAD

Pick one:

a.Overhead connection ◯

b. Underground connection ◯

MULTIMODE OR STANDALONE SYSTEMS

BATTERY INSTALLATION

Pick one:

a. AC Coupled ◯

b. DC Coupled ◯

BATTERY INFORMATION *

Brand .....
P/N .....
Quantity .....

Pick one:

a. Lead Acid ◯
b. Lithium Iron ◯
c. Other ◯

MULTIMODE INVERTER INFORMATION *

Brand .....
P/N .....
Quantity .....

CHARGE CONTROLLER INFORMATION*

Brand .....
P/N .....
Quantity .....

PV SOLAR PROJECT ENGINEERING DESIGN CHECKLIST

Preliminary sketch

Provide a sketch with top view of roof with dimensions. Show preliminary position of PV modules, Disconnect switches, inverters etc. Show position of Utility Meter, Main electrical panel, and any roof obstructions.

I	INVERTER	UM	UTILITY METER	M1	PV MODULE #
PNL	AC SUBPANEL	MEP	MAIN ELECTRICAL PANEL	X	ROOF OBSTRUCTION
S	AC DISCONNECT	JB	JUNCTION BOX	DSW	DC DISCONNECT