

Off-grid Technical planning aid



for calculation of stand-alone solar power systems (Off-grid)

This checklist is designed to help you to summarise all the important information needed for the optimum planning of an off-grid solar power system. Your specialist supplier will be pleased to provide you with an offer tailored to your specific needs based on this information.

Company, contact

Mobile phone number

Address

E-Mail

Telephone	Fax

Coordinates of site

1. Project description

Please give a brief description of the planned use (e. g. residential, water pumping)

3. Information about electricity supply at site

Are there other electricity sources?

<input type="checkbox"/>	No		
<input type="checkbox"/>	Yes, namely:		
<input type="checkbox"/>	Electricity grid	<input type="checkbox"/>	phases
<input type="checkbox"/>	Diesel generator	<input type="checkbox"/>	phases
<input type="checkbox"/>	Other	<input type="checkbox"/>	phases
	Rated power [kW]	<input type="checkbox"/>	

2. Kind of offer

What kind of offering do you require?

<input type="checkbox"/>	Equipment only	<input type="checkbox"/>	Equipment and installation
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4. Usage period

Please specify the number of days the system is used each month of the year in the table below.

Jan	Feb	Mar	Apr	May	Jun
Jul	Aug	Sep	Oct	Nov	Dec

5. Load profile (complete one of two selections)

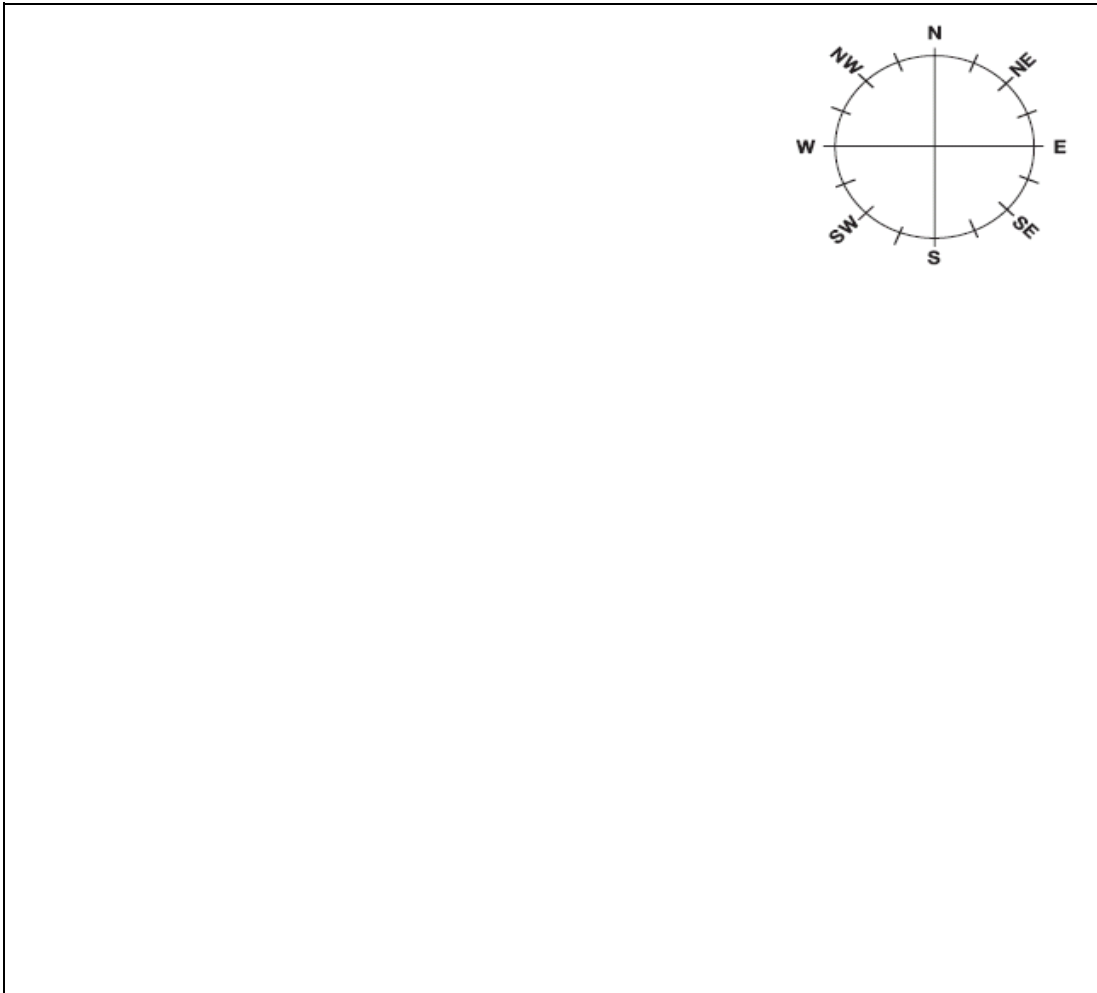
a. Please specify your average daily electricity consumption in kWh per day [kWh/d]:
and your maximum power [kW]:

b. Please complete the table by specifying all your electrical equipment

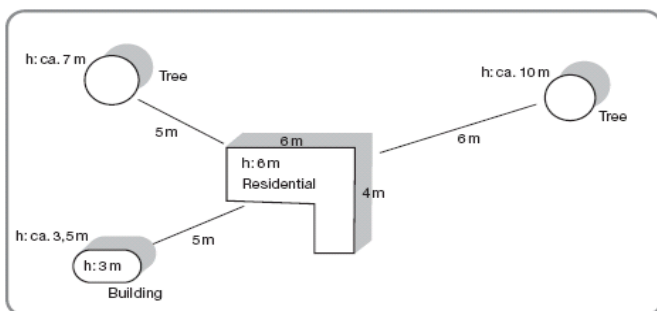
1. Electrical device	2. Voltage		3. Rated output [W]	4. Quantity of devices	5. Operating time (hours per day)	6. Operating time (days per week)	VII. Energy need [Wh] (=3 x 4 x 5)
	VDC	VAC					
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
							0
Total	--	--	0	--	--	--	0

6. Location description sketch

Please sketch the site characteristics (habitation, other buildings, trees, shaded area etc.), including information about distances and heights, and add pictures, if available.



Example



Specialist company executing the work:

7. Typical domestic loads

(For filling table in page 1)

(All loads given are typical. We suggest you to read the manual for the precise power consumption of your

DC Loads	
Load	Power
Low consumption lamp	15
Lamp	75
TV	45
LED 0,8W	0,8
LED 1,2W	1,2
Radio	25
Refrigerator	50

AC Loads	
Load	Power
TV TFT 19"	90
TV TFT 27"	110
TV TFT 36"	130
Radio	80
Low consumption lamp	15
Lamp	75
Refrigerator class A	100
Refrigerator class B	130
Refrigerator class C	150
Refrigerator two doors class A	170
Refrigerator two doors class B	220
Refrigerator two doors class C	260
Refrigerator two doors Full No Frost class A	180
Fridge and refrigerator class A	160
Fridge and refrigerator Full No Frost class A	180
Refrigerator 3 doors class A	250
Fridge class A	100
Refrigerator and icemaker class A	330
Iron	1800
Vacuum cleaner	2000
Small appliances	150
Kitchen absorber	350
PC CPU (on/stand by)	120/30
PC screen (on/stand by)	150/30
Laptop	120
Microwave oven (max)	1200
Coffe maker (filter)	900
Coffe maker (espresso)	1500
Kettle	2500
Space heating	150
Hair Dryer	1500
Washing machine (clothes) using domestic hot water	1800
Washing machine (clothes)	2400
Dishwasher using domestic	1200
Dishwasher without using	2000
Air Conditioner 9000 BTU	2600
Air Conditioner 12000 BTU	3600
Air Conditioner 15000 BTU	4400
Water heater	3500
Pump	750
Electric Oven	2000
Circulation pump	80