
Elgin
ELGIN SOLAR ROOFTOP
Jointly Launched by
ELGIN SYSTEM INC., CANADA
ELGIN SYSTEM (INDIA) PRIVATE LIMITED
For a Clearer Sky

ELGIN SOLAR ROOFTOP

into

Health & environment protection

Green energy saves Earth

Corporates Brief

Elgin System Inc. (ESI), a Canada based technology R & D Corporation in the field of betterment of the pollution control, provides the tailored technical solutions for the emission control of SPM and the Solar Energy.

Elgin System (India) Private (ESIPL), an extended arm of ESI in India, serves the India market in the fields of emission control in Thermal Power sector and develops the Solar Power Projects.

Elgin System (India) Private Limited (ESIPL) has its registered office and full fledged team at Raipur in Chhattisgarh state of India to implement the projects and carry out the service after sales.

Solar rooftop in India

The sun is an in-exhaustive , reliable , non polluting source of power. Globally more and more emphasis is being laid towards the use of renewable sources of energy because of climate change, local air pollution and resource scarcity, in this regard photovoltaic (PV) is best suited as an alternative source of energy in India where clear 300 Days of sunshine is available. Solar powered rooftop are ideal for supply electricity in the area in remote locations where electricity is unavailable or erratic. Even in urban areas these find great usage to reduce the dependency on conventional power and contribute towards green living.

The government of India gradually and steadily is encouraging the use of solar power through their various schemes.

We devote ourselves into the betterment of the performance of these solar rooftop systems through various system optimizations.

What we do is follow strict quality control procedures to maintain the quality standards of our solar rooftop systems to deliver the maximized and perfect performance.

WHY SOLAR ?

India has 300 clear days of sunshine every year.

Established technology globally.

Power Generated at the point of consumption.

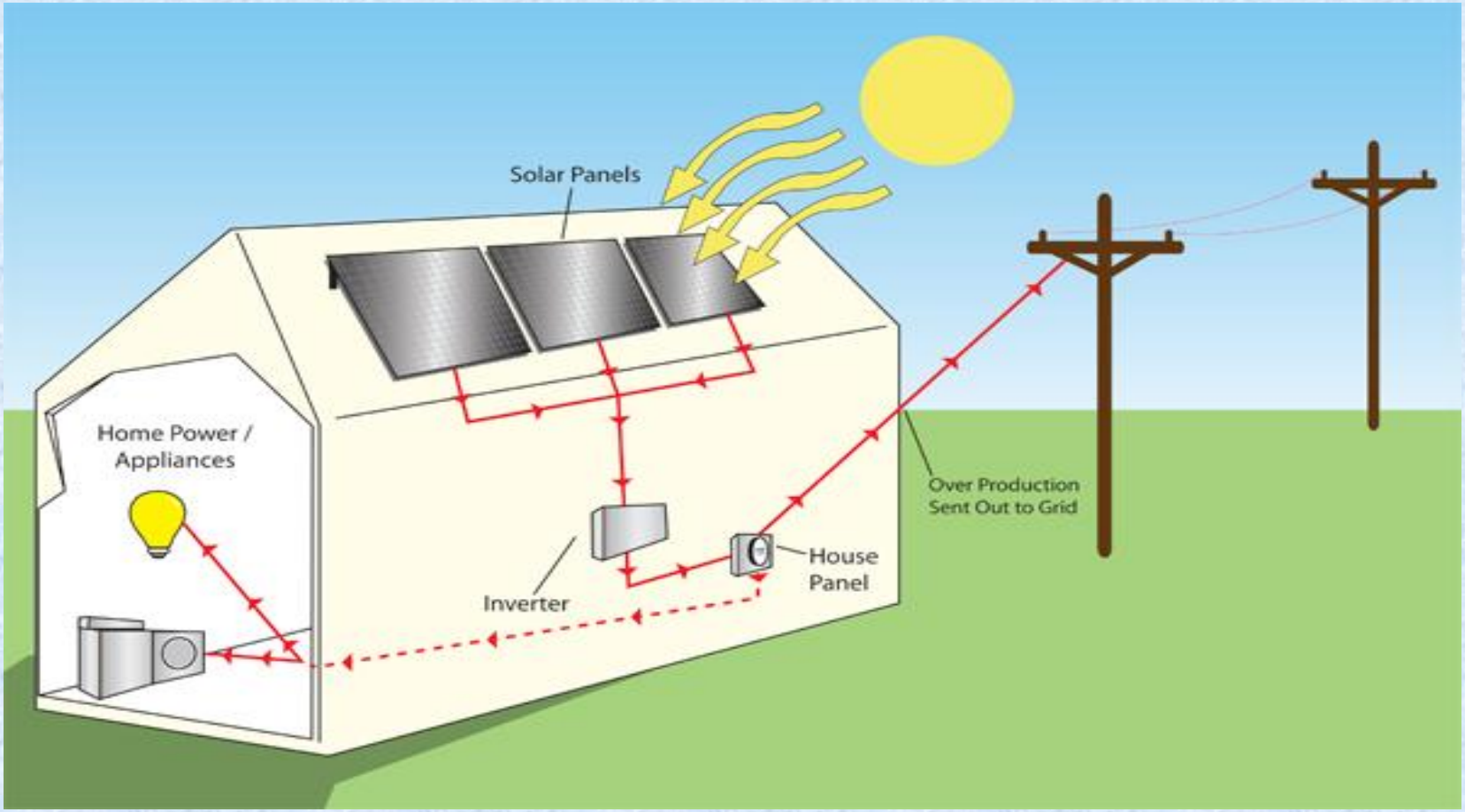
No cabling cost.

No cost of accessories (like transformers, distribution systems & switches Etc).

Negligible Maintenance.

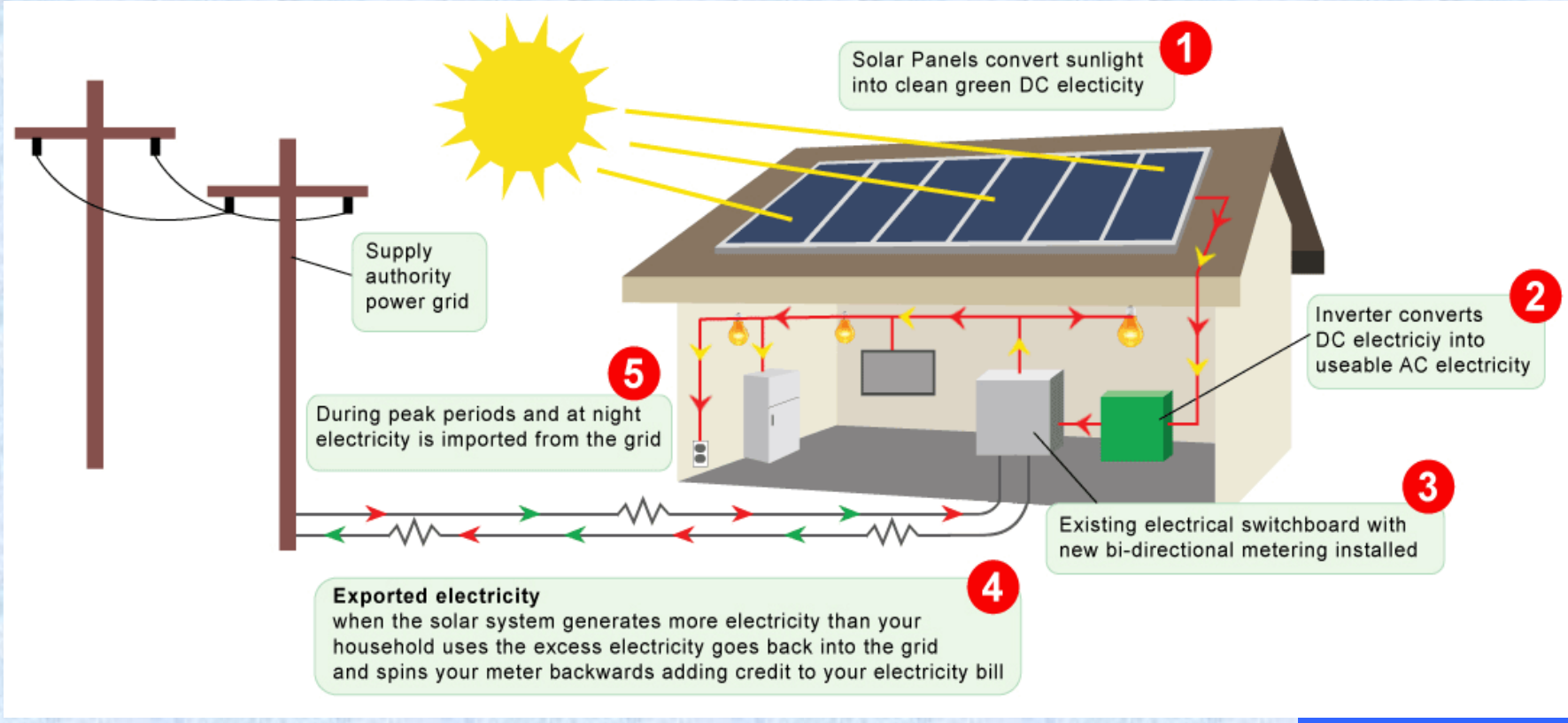
TYPES OF ROOFTOP SYSTEM :

1. ON-GRID ROOFTOP SYSTEM :



SYSTEM DESCRIPTION :

This is a battery-less system that consists of grid-tie inverter and solar panels. This system is maintenance-free and helps in saving money on electricity bills. It is also possible to sell surplus solar energy to state electricity board through net-metering arrangement .



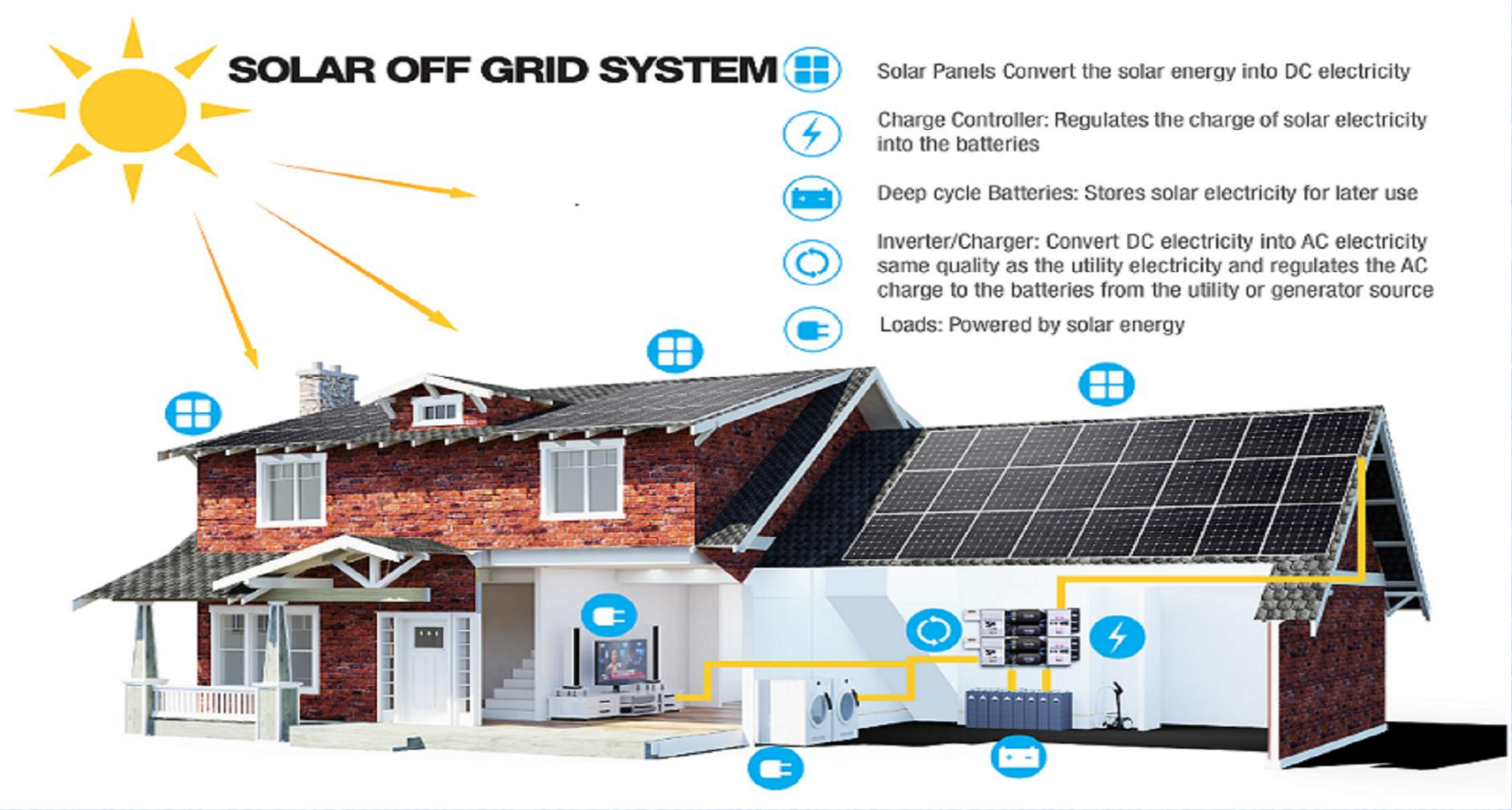
SYSTEM IMPORTANT COMPONENTS:

1. Solar Panels
2. Inverters
3. ACDB (Alternating Current Distribution Board)
4. DCDB (Direct Current Distribution Board)

2. OFF-GRID ROOFTOP SYSTEM:

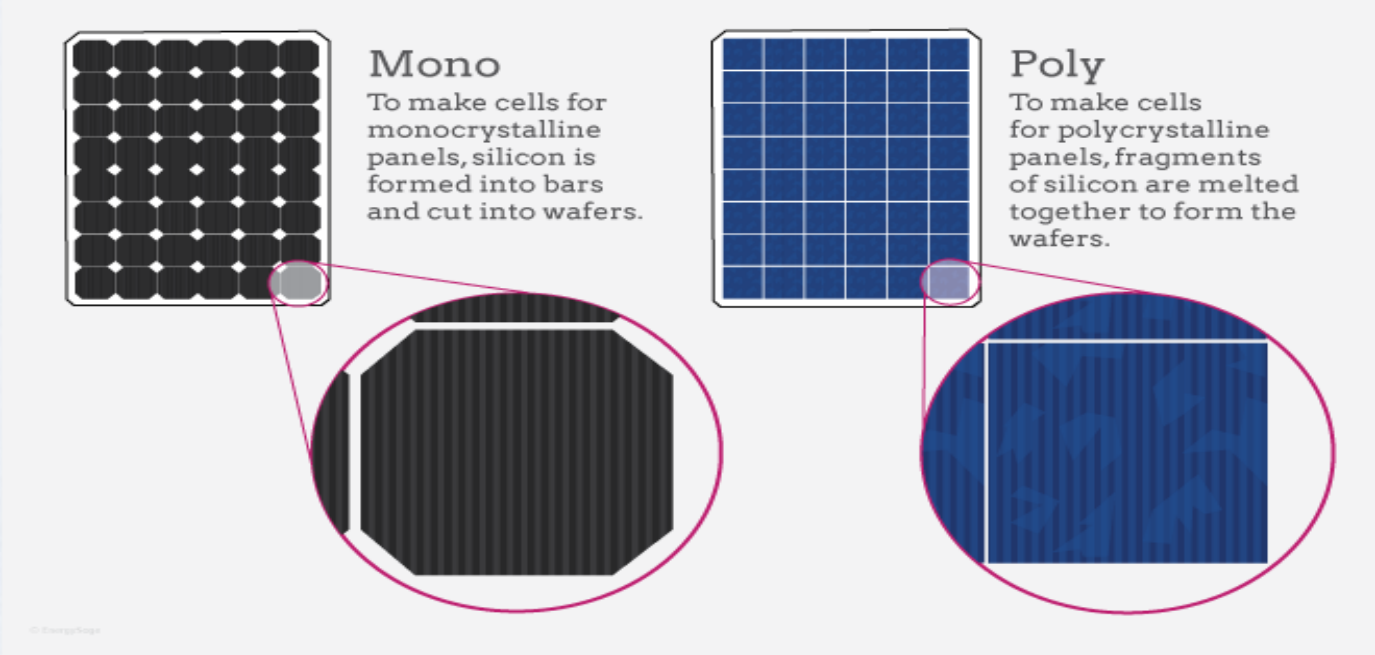
SYSTEM DESCRIPTION:

Off-the- grid is a system without the support electrical grid . It is stand-alone power system or mini-grids typically to provide a smaller community with electricity. This system is suitable in areas without electricity grid or power cuts of 7+ hours.



SYSTEM COMPONENTS DETAILS :

SOLAR PANEL :



We can use 2 types of solar panel :

1.Monocrystalline

2. Polycrystalline

INVERTER :

- Size of Inverter depends on the Max. output power of system .

3KW INVERTER (ON-GRID):

Input (DC)

Max. Input Power	3300W
Number of MPPT/String per MPPT	1/1
Max. Input Voltage	500V
Stating Input Voltage	120V
Rated Input Voltage	360V
MPPT Voltage Range	100-500V
Full Load DC voltage Range	200-500V
Max. Input Current	15A

3KW INVERTER (ON-GRID):

Output (AC)

Rated Power	3100W
Max. AC Power	3100VA
Max. AC Output Current	13A
Nominal Grid Voltage	230V
Grid Voltage Range (According to local standard)	180~270V
Nominal Frequency	50/60 Hz
Grid Frequency Range (According to Local Standard)	47~53/57~63Hz
THDi	<3%
Power Factor	1 (adjustable +/-0.8)
Grid Connection	Single Phase

6KW INVERTER (ON-GRID):

Input (DC)

Max. Input Voltage	1000V
Stating Input Voltage	180V
Number of MPPT	2
Number of DC inputs	1 for each MPPT
Operating Input Voltage range	160-960V
Max. input MPPT current	11A
Input short circuit current for each MPPT	14A
Input range with full power Operation with MPPT parallel	290-850V

6KW INVERTER (ON-GRID):

Output (AC)

Rated Power	6000W
Max. AC Power	6600W
Max. AC Output Current	9.6A
Rated AC Voltage	230V/400V
Grid Voltage Range (According to Local standard)	310~480V
Nominal Frequency	50/60 Hz
Grid Frequency Range (According to Local Standard)	44~55/54~66Hz
THDi	<3%
Power Factor	1 (adjustable +/-0.8)
Grid Connection	Three Phase

10KW INVERTER (ON-GRID):

Input (DC)

Max. Input Voltage	1000V
Stating Input Voltage	180V
Number of MPPT	2
Number of DC inputs	1 for each MPPT
Operating Input Voltage range	160-960V
Max. input MPPT current	11A
Input short circuit current for each MPPT	14A
Input range with full power Operation with MPPT parallel	480-850V

10KW INVERTER (ON-GRID):

Output (AC)

Rated Power	10000W
Max. AC Power	11000W
Max. AC Output Current	15.9A
Rated AC Voltage	230V/400V
Grid Voltage Range (According to Local standard)	310~480V
Nominal Frequency	50/60 Hz
Grid Frequency Range (According to Local Standard)	44~55/54~66Hz
THDi	<3%
Power Factor	1 (adjustable +/-0.8)
Grid Connection	Three Phase

WARRANTY OFFERED

- This product is fully guaranteed against defective materials and manufacturing defaults Inclusive of parts and services .

- The warranty period of 15 years shall apply once to the solar panel.

- The warranty up to 5 years will be applied on complete rooftop system .

Advantages of rooftop system :

- Rooftop solar is beneficial and helpful in dealing with climatic changes.
- It helps environment to be green.
- Roof top solar power plant can be installed quickly.
- Have zero emissions.
- Roof top solar power plant can be installed quickly.
- Reduction in Electricity Bills.
- It has very low noise.
- No need for costly transmission infrastructure.

Elgin®

Creating a new space for green living

For a Clearer Sky

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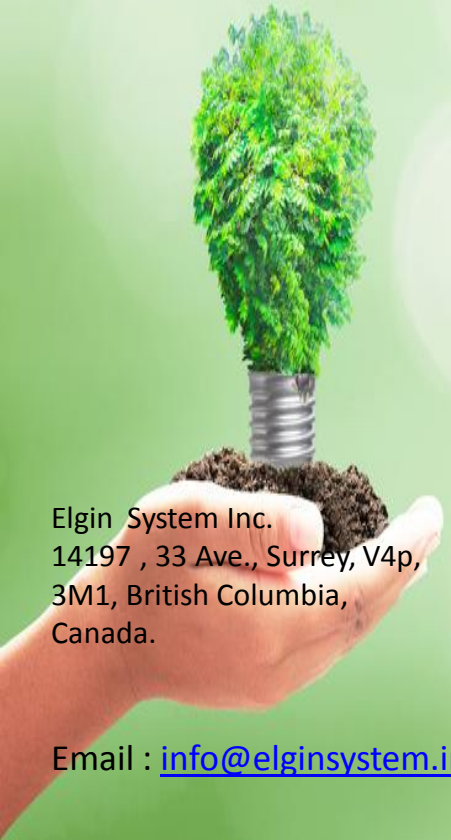
Quality controlled by

ELGIN SYSTEM INC., CANADA



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