Avishkaar

COMPANY PROFILE

We are partner with an ISO 9001:2008 Companies, exclusive manufacturers of solar lighting systems and solar hybrid systems. Specifications have been approved by DGS&D, ETDC, NSIC, and MNRE Govt. of India. Working on many unique renewable energy projects like, Hybrid (wind + solar), solar water pump, solar power plants and the latest with solar LED products all over India.

Official Chanel partner of MNRE Govt. of India to avail any subsidy directly without any intermediate.

1. OUR STRATEGY

We are having Key Partnership Agreements of companies from the US, INDIA, Germany, Switzerland, Norway and Taiwan for supply and installation of Solar Modules, Solar Thin Film Modules, Inverters, Batteries and Hybrid Systems.

We are in the process of setting up and installation of Solar Street lighting, Rural Electrification

2. OUR METHODOLOGY

- Visit your site. A solar professional will make a site evaluation to assess the solar potential and options for system placement and size.
- Custom design your system, taking into account your energy needs, solar access, the architecture of the building, building codes, guidelines and budget.

- Provide a comprehensive proposal, including a cost benefit analysis, a schematic system diagram and product specifications.
- Install an aesthetically pleasing, maintenance-free PV system that will provide your energy for years to come.
- Where possible, also evaluate, suggest and install Solar-Wind hybrid system.

Photovoltaic is one of the fastest growing of all the renewable energy technologies. Over the last one decade the price of solar power fallen by more than 50 %, at present solar power is an attractive domestic and non-domestic product with an estimate annual growth rate of approximately 15 to 20% for the next 5 to 6 years. This makes the solar power the fastest growing sector within the renewable energies.

3. OUR SERVICES

4.1 Evaluation and guidance

A group of professionals who does an end to end evaluation for the requirement and needs of its customers, identify the various renewable energy potentials and plan. This professional services also guides its customers with various methodologies and technologies with which they can achieve the desired results.

4.2 Indoor lighting

A wide range of domestic indoor lighting systems consisting of either the regular or thin module Photovoltaic Modules, Charge Controller, Battery and Lighting units.

These systems are designed typically to give a daily working time a minimum of 4 hours with a fully charged battery with the specified number of lighting units. However, with the flexible design of the system the daily working time can be extended easily to 8-10 hours.

Applications

- Domestic/ Home Lighting
- Street and Garden Lighting
- Theatre/ Hall/ Common space lighting
- Commercial / Industrial lighting

4.3 Street Lighting

Varieties of Street Lighting Solutions consisting of either the regular or thin module Photovoltaic Modules, Charge Controller, Battery and Lighting units.

These street lighting systems are designed for maximum usage period with at least 2-3 days of anatomy with battery fully charged. Our lighting units have High Illumination capacity; Efficient DC lamps and are compact, elegant & sturdy in nature. By design they last long and are Maintenance free with Broad Coverage Area of lighting.

Applications

- Streets, Walk ways and Public Spaces
- Pathways & parking areas
- Rural Areas
- Educational Institutions
- Parks
- Emergency Zones
- Public lighting in Assembly Area, Residential Areas,
- Shopping Malls and Plazas etc.

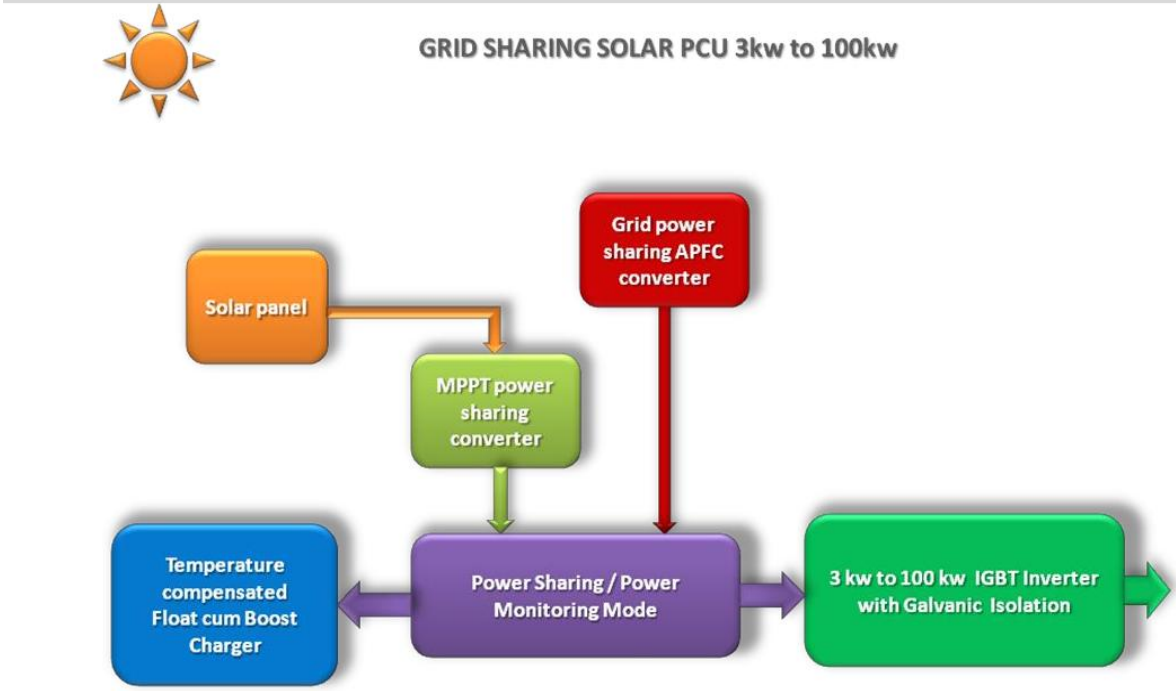
4.4 Commercial Solar Power Stations

Commercial Solar Power Stations; also know as Power Packs is a unique, highly efficient grid connected renewable power solution that caters to very high power needs of an area, an apartment, a village etc. with large scale Solar power pack systems, its customers will be benefited with self content electricity.

Anyone connected to mains power can install Power Pack Solar system to produce their own electricity. These systems can produce electricity to run all the appliances such as fridge, TV, power tools etc.

Note : All the services described above are quality tested in our lab under natural sunny weather. The duration of the power output directly depends on the battery strength and charge condition.

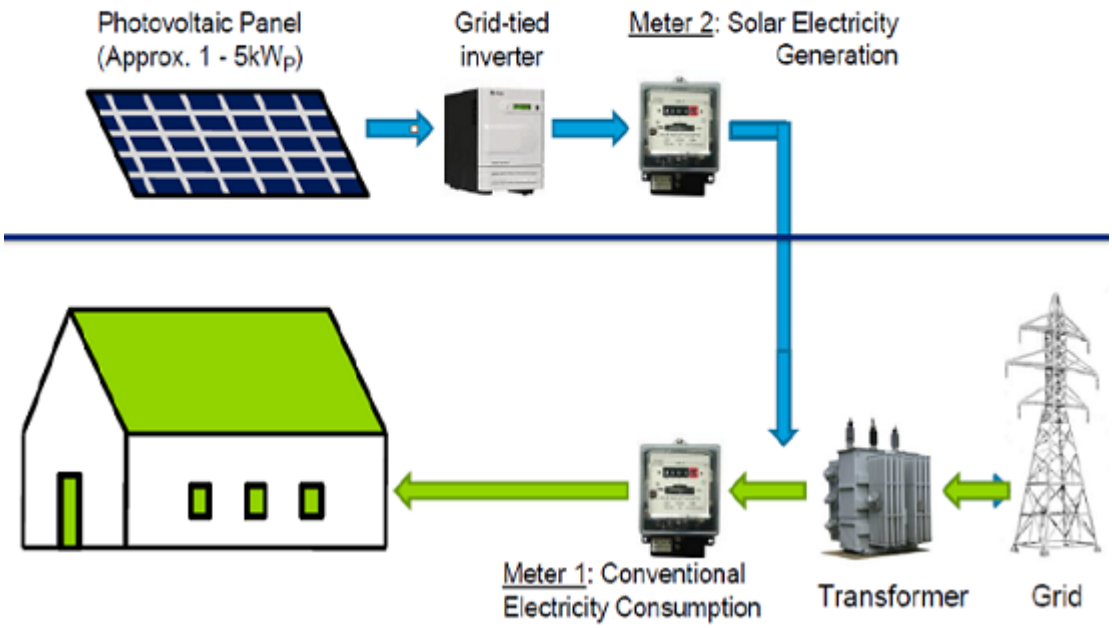
4.5 Roof Top Net metering



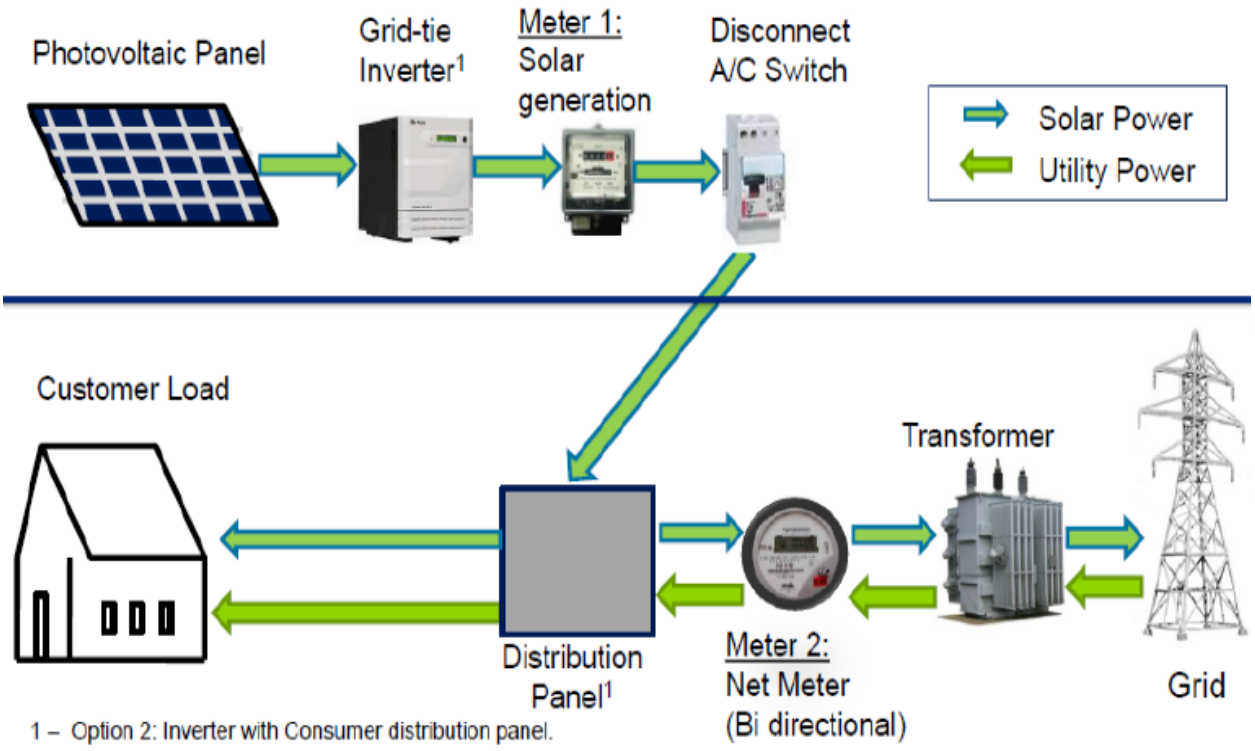
Main Features

1. Load sharing between solar, Grid, Wind & DG.
2. 100 % Utilization of solar power using Power sharing MPPT Converter and solar PCU.
3. Industrial Grade IGBT inverter with complete Galvanic Isolation (Three phase output - Three phase single Delta Star Transformer).
4. Parallel operation for Solar and Grid.
5. Load side Reactive power compensation Ensures Additional output load can be used.
6. Solar PCU module utilizes the entire power available from solar and in the event of short-fall in power availability from solar the mains power is drawn to compensate the deficit of power.
7. Power sharing in PCU for catering to the load can be configured as per our requirement. Example Solar primary source and secondary for grid.

Gross Metered Rooftop solar

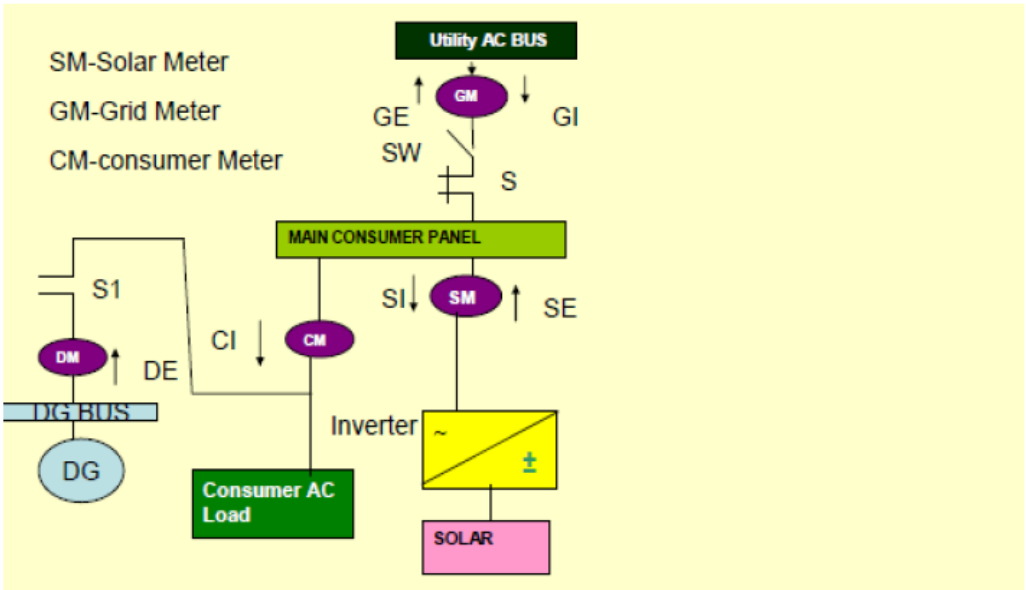


Net-Metered Rooftop solar

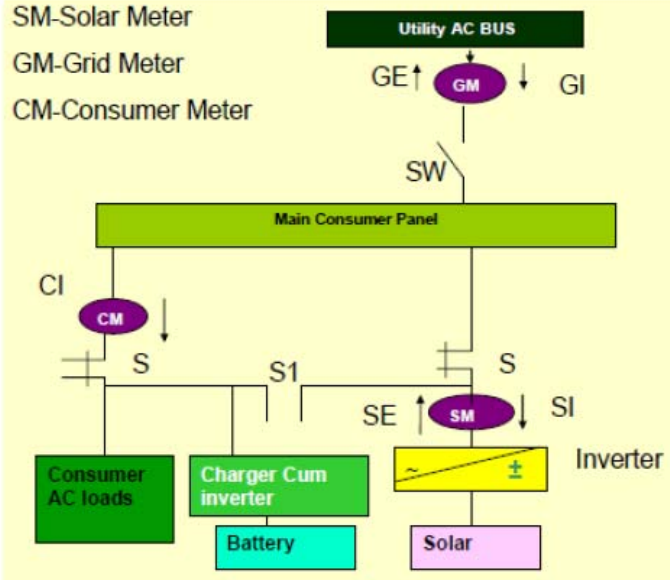


1 – Option 2: Inverter with Consumer distribution panel.

Grid Interactive Solar PV System With Full Load DG Backup



Grid Interactive Solar PV System With Full Load Battery Backup



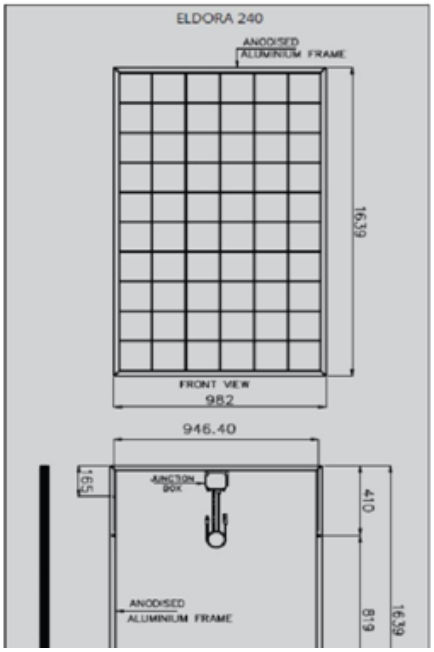
250Watt SPV – Technical Data

Electrical data - All data refers to STC (AM 1.5, 1000w/m², 25°C)

Type	24V/250Watt
Nominal voltage Pmpp (0to +4.99)	250Wp
Nominal voltage Vmpp (V)	36.30
Nominal current Impp (A)	6.90
Open circuit voltage Voc (V)	43.60
Short circuit current Isc (A)	7.35

Temperature coefficients (Tc) and permissible operating conditions

Tc of Open circuit voltage (β)	-0.32 % /°C
Tc of short circuit current (α)	0.04 % /°C
Tc of Power (γ)	-0.45 % /°C
Maximum system voltage	1000 V(TUV), 600V(UL)
NOCT	45ºC ± 2ºC
Temperature range	-40ºC to + 85ºC



QUOTATION AND TECHNICAL SPECIFICATION

TYPE: 1kW Solar Power System – Net metering System

System Name	**1 kW Solar Power plant System**
Total average power generation per day	**4 kWh(Units)**
Solar PCU Capacity	**1 KVA/24V (MNRE approved Makes)**
Solar module capacity	**250 Wp * 4 Nos. SPV (MNRE approved Makes)**
SPV Module make	**DSSPL**
Structure for SPV MODULES	**MS Galvanized structure provided**
Warrantee for the Solar module	**25 years as per MNRE Clause**

Net Meter	**Provided (BESCOM/CESCOM approved make)**
Earthing , lighting arrest , Cables, distribution boxes and other accessories	**Complete accessories provide**
Warrantee and maintenance for the Complete system	**5 years**
Cost of solar power System	**1,40,000 INR**
VAT 5.5 %	**Inclusive INR**
Total Cost for complete System	**1,40,000 INR**
Transportation charges	**Actual if out of Bangalore**
Installation and commissioning charges	**Actual if out of Bangalore**

Note: The above cost includes transportation, installation and commissioning

Further to any clarification kindly contact the under signed on
Mobile: +91 9449982126/9902971242/9845942016/7.

Thanking you and assuring of our best service at all the times.