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## RESIDENTIAL SOLAR OFF-GRID SYSTEM

### 5000W

Truelite's solar home power systems (Grid/Off Grid) have helped thousands of people to take advantage of the clean and green solar energy. Choose the kit that meets your load consumption and use it for your desired application. The system is mainly composed of solar module, battery, charge controller, inverter, Combiner box and necessary cables. Our easy to install kits can also be used in remote areas where there is scarcity of electricity. Truelite Offers the most advanced hybrid Solar Off-Grid Home system to make your home a better place to live in. Truelite Solar Home is the result of a great and thorough Research and Development carried out in the region on various aspects of solar power generation, banking and distribution. Truelite combines the technology with our R&D to offer the best Home Power System in the market. Truelite offers solar home power systems from 500W to 5KW.

### Features

- High-Efficiency solar panels.
- High performance charge controller.
- Long battery backup.
- High efficiency DC-AC Inverter.
- Easy installation of PV module.
- Proven superior field performance.
- Highly reliable system.
- Off-grid solar systems can be cheaper than extending power lines in certain remote areas.
- Eco-friendly.
- Solar modules have up to a 25-year warranty.
- Systems typically have a lifetime of 40+ years.
- Reduce the burning of fossil fuels for a healthier environment.
- Generate your own electricity and reduce your electric bill.
- LED system indicator.
- International warranty.
- CE, RoHS certifications.

Appliances	Watt	Quantity	Total watt	Working Hour	Consumption in Wh
Bulbs	10	32	320	4	1280
Tube light	40	5	200	4	800
Ceiling Fan	80	11	880	4	3520
TV	150	6	900	4	3600
Fridge	1000	2	2000	4	8000
Laptop	50	2	100	4	400
Desktop/Computer	150	4	600	4	2400
Grand Total		5000			20000

Consider Sunlight availability is 4 Hours (Depend up on the territory) per day. Let us consider battery voltage is 12V.

From the given table we can use OFF-GRID solar residential system with following components.

- 5000W solar panel.
- 1666 Amp Hours of battery capacity.
- 416 Amp solar charge controller.
- 5000 Watt inverter.

#### Other Important Components

- Solar panel mounting hardware.
- Pre-cut wiring runs.
- Solar wiring combiner box.
- Battery storage box.
- On-location & remote (online) monitoring system.
- Breakers, fuses and other electrical components

## Application Area

Truelite can offer off-grid solar systems for fully automated high end residential sites, homes, remote cabins, telecommunications applications and remote business applications. Our easy to install kits can also be used in remote areas where there is scarcity of electricity.

## Ordering Code

TLRSOG-MP5000-IH