

**ENERGY PRODUCTION & APPLIANCE USAGE**  
**OCTA PLUG-IN SOLAR SYSTEM (2 KW)**  
**1,972 kWh OUTPUT PER YEAR**



THE OCTA 2KW PLUG-IN SOLAR SYSTEM IS ESTIMATED TO COVER THE ENERGY CONSUMPTION OF THE FOLLOWING, EACH YEAR:

| Appliance  | Average Usage                          | kWh Per Use  | Total kWh Per Year |
|--|--|--|--------------------|
| Microwave Oven                                     | 520 Times per year (10 times per week) | 1.39 (On Full Power)   | 723                |
| Tumble Dryer                                       | 250 Times per year (5 times per week)  | 2.50 (Per cycle - based on an average load of 4.75Kg)            | 625                |
| Washing Machine                                    | 275 Times per year (5 times per week)  | 0.63 (Per wash - based on average load of 2Kg) (A Rated Machine) | 174                |
| Fridge Freezer                                     | 24 Hours per day (365 days per year)   | 1.12 (Per day) (A Rated Machine)                                 | 408                |
| <b>Total Kwh Per Year For Specified Appliances</b> |  |  | <b>1,930</b>       |

**OR**

|  |  |  |              |
|--|--|--|--------------|
| Dishwasher   | 400 Times per year (7 times per week)  | 1.07 (Per use at 55°C)   | 428          |
| Electric Oven                                      | 550 Times per year (10 times per week) | 1.56 (Per Use)   | 858          |
| Electric Hob                                       | 650 Times per year (11 times per week) | 0.71 (Per Use)   | 462          |
| Washing Machine                                    | 275 Times per year (5 times per week)  | 0.63 (Per wash - based on average load of 2Kg) (A Rated Machine) | 174          |
| <b>Total Kwh Per Year For Specified Appliances</b> |  |  | <b>1,922</b> |

**OR**

|  |                                       |  |              |
|--|---------------------------------------|--|--------------|
| LCD TV (32in)                                      | 8 Hours per day (365 days per year)   | 0.96 (Per day - on Power)  | 351          |
| Electric Oven                                      | 500 Times per year (9 times per week) | 1.56 (Per Use)   | 780          |
| Microwave Oven                                     | 470 Times per year (9 times per week) | 1.39 (On Full Power)   | 654          |
| Washing Machine                                    | 250 Times per year (5 times per week) | 0.63 (Per wash - based on average load of 2Kg) (A Rated Machine) | 158          |
| <b>Total Kwh Per Year For Specified Appliances</b> |                                       |  | <b>1,943</b> |

These figures assume that you have south facing solar panels, pitched at a 35 degree angle, you pay 14.05p per unit of electricity (Standard rate as of February 2015 source: Energy Saving Trust) and 100% of the solar electricity that you generate will be used in your home. Calculations assume an annual energy price inflation of 10% & include solar radiation & system losses, in a western UK location, due to Temperature 6.8% and Angular Reflectance 2.9%, as well as other losses (e.g. Cables, Inverter) of 12%. The performance of solar PV systems is impossible to predict with certainty due to the variability in the amount of solar radiation (sunlight) from location to location & from year to year. This estimate is based upon the Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. Illustrative solar PV performance figures only. Figures are given in good faith but do not constitute "Financial Advice". Yearly PV output uses a factored degradation over time based on industry estimates. Photovoltaic Panels will not be shaded (e.g. by Trees or Buildings) as shading affects PV output. Please note: Specific appliance ratings and equipment age will affect energy consumption and these examples are guidelines only. Appliance consumption information from Center for Sustainable Energy ([www.cse.org.uk](http://www.cse.org.uk))

**Plug-In Solar**  
**289 London Road | Burgess Hill | West Sussex | RH15 9QU**  
**[www.pluginsolar.co.uk](http://www.pluginsolar.co.uk) | 01444 239807**  
**[info@pluginsolar.co.uk](mailto:info@pluginsolar.co.uk)**