

General data of the sun

The Sun is a typical star, but extra ordinary to humans as to the limited distance to Earth.	Yet the only source of life, fossil fuels and organic matter on the Earth.
Distance from the Sun to the Earth is 149.598×10^6 km. Yet it takes 8 minutes for the light to reach our blue globe.	Total lifetime of the sun is estimated to be 9.5 billion years. Expected remaining life time 5 billion years!
Weight of the Sun is 1.99×10^{30} metric ton about 332.900 times the Earth. Our solar system is a small part of the Milky way being 1×10^{18} km in diameter.	This magnificent star convert in the range of 7×10^6 ton/sec of Hydrogen through fusion and emit 390×10^{18} MW / sec!
Specific weight: in the center 150 ton/m^3 at the surface 1 kg/m^3 average 1.41 ton/m^3	The Suns surface heat emission is $64.4 \times 10^6 \text{ watt / m}^2$ of which the surface of Earth receives maximum $1,367 \text{ watt/m}^2$ on a sunny day on equator. In southern Spain a maximum of $1,100 \text{ watt/m}^2$.
Diamight is 1.392×10^6 km approximately 109 times the earth diameter.	Surface temperature is $\sim 5,800 \text{ }^\circ\text{K}$ and the center estimated $14 \times 10^6 \text{ }^\circ\text{K}$.
The original Sun consisted of: 75 % Hydrogen 23 % Helium 0.8 % Oxygen 0.3 % Carbon 0.9 % other elements	The present Sun consist of: 34 % Hydrogen 64 % Helium 0.8 % Oxygen 0.3 % Carbon 0.9 % other elements
	Sun hours In southern Spain the average is 3000 hours/year. Available power: 850 watt/m^2 at Sevilla and $1,100 \text{ watt/m}^2$ at Almeria In Denmark the average sun hours is 1800. Ranging between 1300-2100 hours/year.

