



# SOLAR ENERGY

## The sun: our most important energy source

Throughout the world our **total annual energy consumption** equals the energy produced by a mere **20 minutes** of sun shining on the earth.

Throughout Africa there is an average of over **1150 hours** of sunlight per year. **WAWA Energy Solutions** solar panels have been specifically designed to turn this energy into electricity in an efficient manner.

Solar energy is an environmentally friendly source of energy.

Every kWh generated by solar energy saves approximately 1 kg of CO<sub>2</sub> compared with kWh generation through conventional (fossil) sources.

In addition solar energy (PV) does not cause unpleasant smells or noise pollution; convenience and courtesy to people living in the surrounding area when compared to the burning of fossil fuels.

All **Wawa Energy Solutions** Solar Panels have an extremely long life, require no maintenance, and are not subject to wear and tear. The product warranty for the Solar Power solar panels is two (2) years with yield guarantee of twenty (20) years.

Solar Power panels are supplied as complete sets inclusive of hardware, suitable for installation on customer specified types of roofs (example: slanted or flat roofs or ground mounted).

All **Wawa Energy Solutions** Solar Power sets are supplied complete with solar panels, Solar Power Inverter and installation materials specifically required for installation on any site.

More information on this product and installation are available on [www.wawaenergysolutions.com](http://www.wawaenergysolutions.com)

### Benefits & Advantages

- Cost effective
- Very high efficiency, even in winter
- Long life
- Easy installation
- Rugged construction with high reliability
- Very low maintenance costs

# WES - SP 240



WES-SP 240

Your supplier in all weather conditions.

**WAWA Energy Solutions** would like to introduce their many affordable, innovative products that enable customers and businesses to generate their own energy needs.

You can now choose to provide for your own sustainable energy requirements, reduce your fossil fuel use while taking some personal initiative toward a healthier future for our planet.

Your Choice: **WAWA Energy Solutions**

## Technical Data

Specifications:	WES - SP 240
Peak Power:	240 W
Cell efficiency:	16.94 %
Module efficiency:	14.75 %
Open circuit voltage (Voc):	36.50 V
Short circuit current (Isc):	8.50 V
Max. power voltage (Vmp):	29.40 V
Max. power current (Imp):	8.16 V
Maximum system voltage:	1000 V
Power tolerance	-1 to + 3 %
Normal operating cell temp:	45.3 ± 2 °C
Series fuse rating (A):	15 A
Number of bypass diodes:	3

## Mechanical

Specifications:	WES - SP 240
Cell dimensions:	156 x 156 mm
Number of cells:	60
Cell type:	Polycrystalline
Module dimensions:	1640 x 992 x 50 mm
Max module load:	5400 Pa

Temperature coefficients	
Temp. coeff. of Isc (TK Isc):	0.065 % / °C
Temp. coeff. of Voc (TK Voc):	- 0.346 % / °C
Temp. coeff. of Pmax (TK Pmax)	- 0.46 % / °C

