

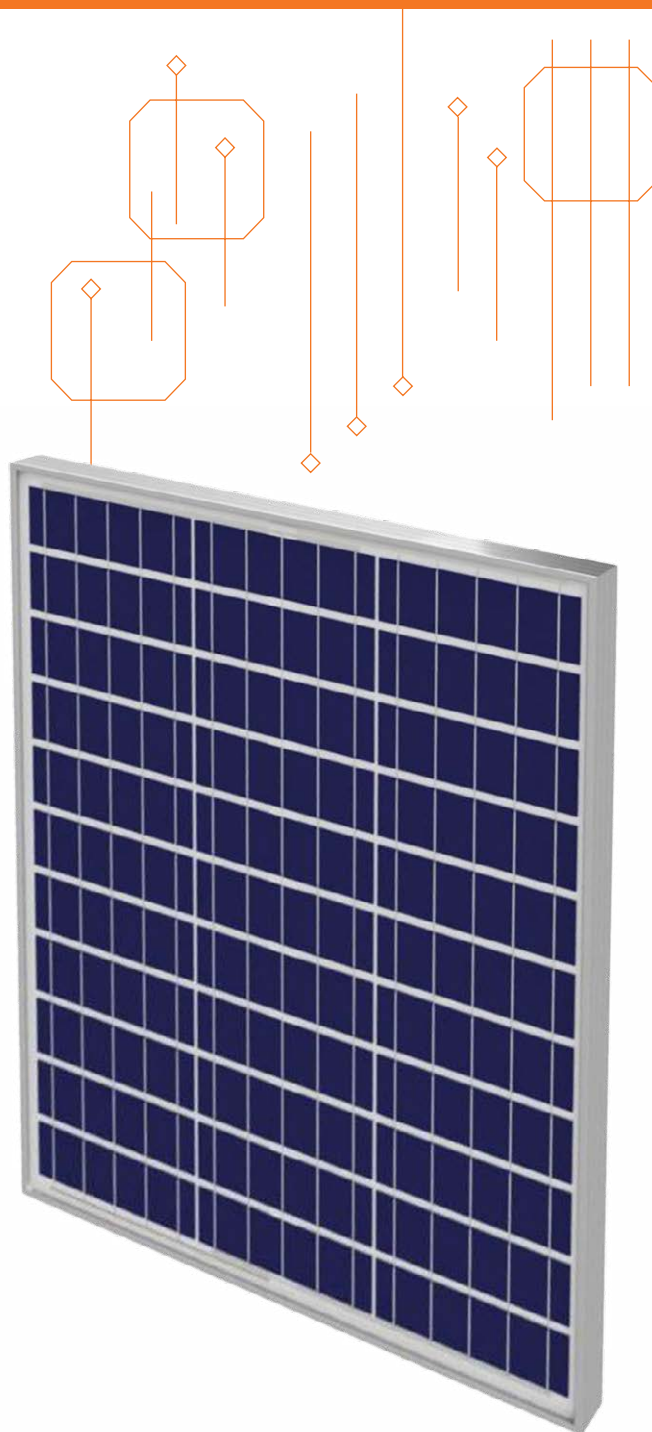
45-WATT SOLAR PANEL

Ener-G-Africa's 45-Watt Solar Panel is compact yet powerful. It is especially suitable for charging batteries and running smaller USB devices such as fans, making it ideal for use at home or on the move.

- Solar Charge Controller
 - Output Voltage: 12V/24V
- Battery types compatible with the charge controller
 - Lithium Battery
 - Lead Acid Battery
 - Lithium Iron Phosphate Battery
- 2 x USB Type A Outputs
 - Output Voltage: 5V, 2000mA Max



**PURCHASE
HERE**



Angola
+244 (0) 946 287 083

Malawi
+265 (0) 999 987 424

Mozambique
+258 (0) 846 649 866

South Africa
+27 (0) 21 569 6099

Zimbabwe
+263 (0) 77 365 0007



**ELECTRICAL CHARACTERISTICS**

Theoretically Calculated

Max Power (Pmax)	48.62W
Max Power Voltage (Vmp)	17.325V
Max Power Current (Imp)	2.81A
Open Circuit Voltage (Voc)	20.89V
Short Circuit Current (Isc)	3.01A
Power Tolerance	+8%
Cell Efficiency	18%
Max System Voltage	400V

**CELL TEMPERATURE CO-EFFICIENTS**

Temperature Co-Efficient of Pmax	-0.342±0.04%/°C
Temperature Co-Efficient of Voc	-0.300±0.024%/°C
Temperature Co-Efficient of Isc	0.059±0.007%/°C

**MECHANICAL CHARACTERISTICS**

Dimensions	686mm x 504mm x 25mm
Weight	3.5kg
Solar Cells	5BB Multi-Crystalline Silicon 156.75mm x 52.25mm
Cell Arrangement	33 (3 × 11)
Construction	Low Iron, AR Coated Tempered Solar Glass
Frame	Anodized Aluminium

**JUNCTION BOX**

IP Rating	64
Diode Model	10A10
Cable Length	0.5M

Ener-G-Africa (EGA) helps to tackle the challenges of climate change and improve the lives of people in Africa through its research and development of quality sustainable energy products.

EGA manufactures and distributes locally-made solar panels, biomass fuels and a range of biomass cooking stoves. EGA promotes access to clean and renewable energy for all, while protecting Africa's natural resources for future generations.