

# Off-grid Solar Modules 80, 100, 120, 140 Watt



## Designed in Europe Manufactured in Kenya

*In 1 day the earth receives enough radiation from the sun to cover our global energy consumption for a full year. So let's use it!*

*Our high-performance solar modules are designed by our Dutch mother company Ubbink for optimal yield and return-on-investment.*

*Ubbink solar modules are manufactured in our own production facility in Naivasha, Kenya. The use of European production knowledge and carefully selected components like European Solar Cells are the foundation for a top quality solar module.*

Electrical Properties at STC*				
Model	80 Watt	100 Watt	120 Watt	140 Watt
Maximum power Pmax	80W	100W	120W	120W
Current maximum powerpoint Impp	4,4A	5,6A	6,7A	7,8A
Voltage maximum powerpoint Vmpp	18V			
Open circuit voltage Voc (STC)	21.6V			
Short circuit current Isc	5.2A	6.5A	7,6A	8,8A
Operating temperature	-40°C to 85°C			
Maximum system voltage (V)	715V			
Power tolerance	±3%			
Diode	10A			

\*STC (Standard Test Condition):

- Irradiance 1000 W/m<sup>2</sup>,
- Module temperature 25°C
- Spectrum AM 1.5

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QS-001-2-0513



ISO 9001 Certified

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Warranty				
Model	80 Watt	100 Watt	120 Watt	140 Watt
Product Warranty	10 years			
Output Warranty	Linear warranty (1 <sup>st</sup> year 97%, after 2 <sup>nd</sup> year 0.7% annual degradation, 80% after 25 years)			

Mechanical Properties				
Model	80 Watt	100 Watt	120 Watt	140 Watt
No. of cells	36 (4x9)			
Cell type	Polycrystalline cell			
Module dimensions (a)x (b)	667 x 944mm	667 x 1160	667 x 1377mm	667 x 1479mm
Weight	8.8kg	11.0kg	12.9kg	13.8kg

Output Terminal				
Model	80 Watt	100 Watt	120 Watt	140 Watt
Output Terminal	Junction box IP65 with male/female connection			
Cable	4mm <sup>2</sup> - 10A - 1000V			

## Characteristic Curves

