

**DC**solar

**Maximum charging** current  
from the **most compact** designs



Solar cells from  
Sunpower Corp.

residential & industrial off-grid



## Features

### Sized to meet all needs

12V panels: 60Wp, 90Wp, 100Wp and 140Wp

### High efficiency

Unrivalled cell efficiency of up to 21.5%

### Compact

Up to 50% smaller than the competition

### High performance

Even at high temperatures and low-light conditions

### Study

Anodised aluminium frames and 4mm thick solar glass

### High reliability

Cells are designed and manufactured by Sunpower Corp in the USA

### Piece of mind

## Innovative, Reliable, Efficient

**The exclusive DC-Solar range is ideally suited for all off-grid applications, producing maximum charging current from the most compact designs.**

The DC-Solar range of glass-fronted solar panels use the most efficient solar cells available, manufactured by Sunpower Corp. in the USA. They are the ideal all weather modules and produce excellent yields in low-light conditions such as cloudy days.

The sturdy anodised aluminium frames (with mounting holes for easy and quick installation) plus extra thick front glass result in a robust, durable solar panel.

The solar cells are uniquely connected together at the back not the front in the same way as standard solar panels. Not only does this increase the visible surface area of the solar cells, it also makes the front more aesthetically pleasing (no silver wires).

The multi-layer backing material reflects unused light back into the solar cell, increasing energy production even further.

## Electrical Data STC, 1,000WM<sup>2</sup>, 25°C, AM 1.5

	DC-60	DC-90	DC-100	DC-140
Max Power Pmax (Wp)	60	90	100	140
Max Power Voltage Vmpp (V)	16.9	16.7	17.5	18.4
Max Power Current Impp (A)	3.56	5.46	5.72	7.46
Open Circuit Voltage Voc (V)	20.3	20.4	21.2	24.1
Short Circuit Current Isc (A)	3.99	5.78	5.92	8.49
Series Fuse Rating (A)	9	15	15	14
Max System Voltage (nominal) (V)	70	70	70	70

## Temperature Coefficient

	DC-60	DC-90	DC-100	DC-140
Temperature Coefficient Pmax %/°C	-0.38	-0.38	-0.38	-0.38
Temperature Coefficient Voc mV/°C	-58.7	-60.8	-60.8	-66
Temperature Coefficient Isc mV/°C	3.56	5.46	5.72	7.46

## I-V Curve

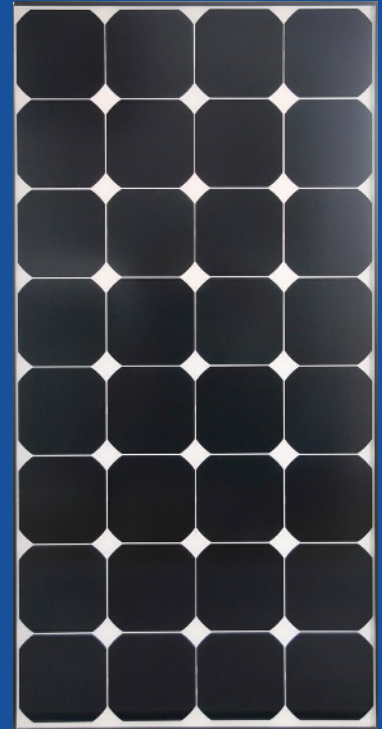
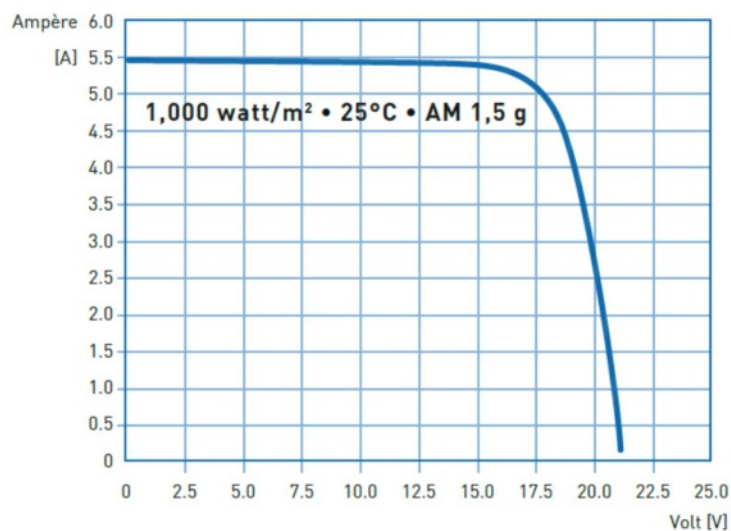
Max Power Tolerance +/- 10%

Performance warranty:

10 years limited power warranty of 90%

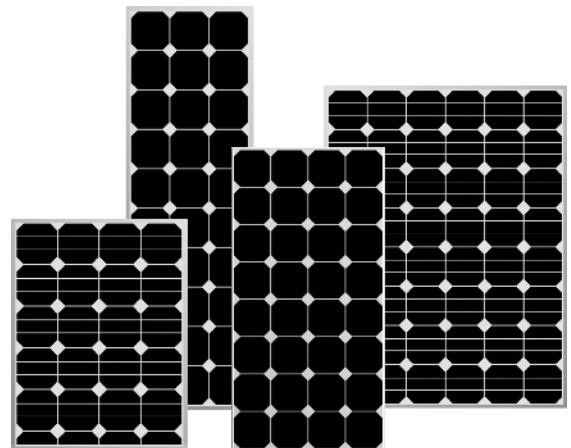
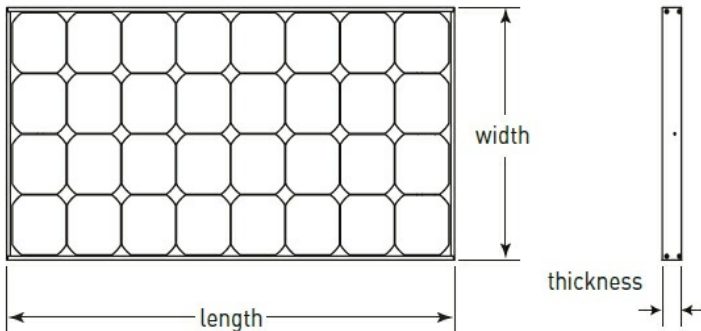
20 years limited power warranty of 80%

Of the minimum specified power rating according to the complete warranty terms and conditions in the current version.



## Worlds most efficient cells

- Unrivalled cell efficiency of up to 21.5%
- Aerospace technology cells - Interconnect with in-plane strain reliefs, ensuring high reliability
- Cells embedded in EVA, water- and airtight with multilayer back sheet
- 4mm thick, tempered and highly transmissive solar glass
- Manufactured in ISO 9001 certified factory



	DC-60	DC-90	DC-100	DC-140
Dimensions (mm)	734 x 535	1302 x 416	1037 x 527	1082 x 796
Thickness including junction box (mm)	35	35	46	35
Weight (Kg)	5.2	7.5	7.4	12

Your local distributor



Leading Edge Turbines  
 Skyrrid Farm | Pontrilas  
 Herefordshire | HR2 0BW

Call +44 (0)1981 241668 | Email [info@leturbines.com](mailto:info@leturbines.com)

Copyright © 2016 Leading Edge Turbines