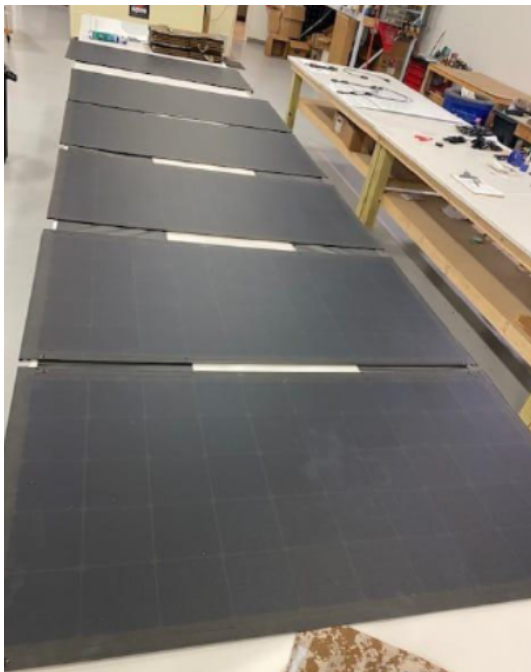


[www.rfusion.co.uk](http://www.rfusion.co.uk)

## Rfusion 200W & 310W Commercial Solar panel

August, 2023

Product Overview



Rfusion is one of the world's first integrators to use non-glass, UL certified crystalline PV modules. The module's multi-layered structure provides excellent resistance to harsh environmental conditions and the fluoropolymer front sheet protects the module from all chemicals. IP67, UL1703 certified, IEC61215 Resistance tested.

Panel efficiency is up to 24.3% due to quality.

Manufactured in the USA. 99.9% recyclable.

Most other panels are only up to 15%.

All cells are x-rayed individually before and after manufacture.

Flash testing determines the efficiency metric, and all panels are tested.

Each panel is checked individually and not batch tested.

No earthing is needed. No P.I.D. (passive Inductive Degradation) No earth to maintain.

This also means we do not produce any static electricity stopping dust and sand from sticking to the panel.

Panel Specifications	200W Panel	310W Panel
RFusion part number	R200Wc	R310Wc
Power(W) (Minimum)	200W	310W
Optimum Power Voltage (Vmp)	34.78 V	54.65V
Optimum Operating Current (Imp)	6.05 A	6.05 A
Open Circuit Voltage (Voc)	40.82 V	64.15 V
Short Circuit Current (Isc)	6.20 A	6.20 A
Maximum System Voltage	600 VDC	600 VDC
Panel Efficiency (%)	>24.30%	>24.30%
Number of Solar Cells / Panel	56 Cells	88 Cells
Module Dimension	965.20 mm x 1067.00mm	965.20mm x 1475.00mm
Module Weight	4.6Kg	6.8Kg
Number of Bypass Diodes	7	7
Nominal Operating Cell Temperature	43 +/-2 °C	43 +/-2 °C
Temperature Coefficient:	-0.3%/C	-0.3%/C
Reverse Current Protection	Blocking Diode	Blocking Diode
Connector Type	MC4	MC4
Anti Glare / Anti Reflection	Yes	Yes
Bend radius	8°	8°
Junction Box	Front	Front

We use multiple blocking diodes, so it will not take out the whole panel (think Christmas light bulb scenario.) No need to dispose of the entire panel. Panels are sealed; nothing can enter the front or back to cause degradation to panels. Thus there is no accelerated degradation. Installation is simple, they can be installed in a conventional way, stuck and even drilled on the outer edges allowing them to be bolted, screwed or riveted. Glass panels require around 23 degrees elevation due to how light repels and reflects from glass surfaces. No angle is necessary with Rfusion's solar panels. They can be mounted vertically or horizontally.