

RFUSION

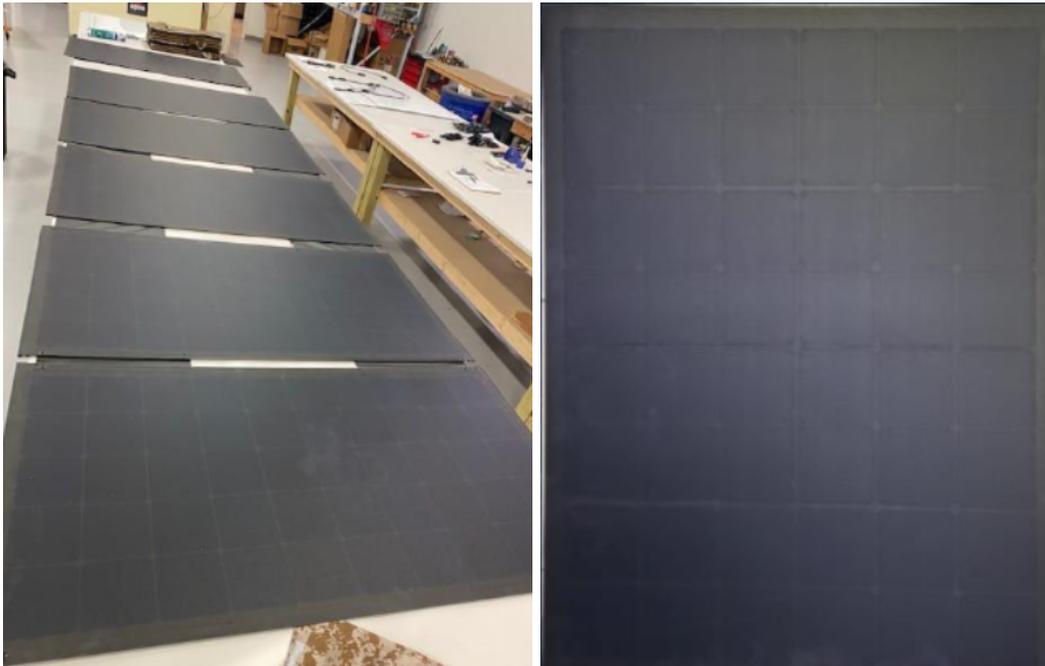
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Rfusion 170W Commercial

July 26, 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 Specifications	
Rfusion Part Number:	RPC170
Panel Type:	Rigid Panel
Maximum Power (W): (+/- 5W)	170 W
Optimum Power Voltage (Vmp):	29.5 V
Optimum Operating Current (Imp):	5.75 A
Open Circuit Voltage (Voc):	35.0 V
Short Circuit Current (Isc):	6.01 A
Solar Cell Efficiency (%):	24%
Number of Bypass Diodes:	8
Number of Solar Cells:	48
Module Weight:	8.5 lb. (3.86 kg)
Solar Module Configuration:	6 x 8
Module Dimension (Open) (in):	43" x 32.5"
Module Area: (sf) (m²)	9.7 sf; (0.9m ²)
Module Efficiency:	18.8%
Nominal Operating Cell Temperature:	45 °C
Temperature Coefficient (Current):	-0.27%/°C
Operational Temperature Range:	-40 °C to 70 °C
Maximum System Voltage:	600 VDC
Maximum System Current:	15A
Junction Box Type:	Amphenol
Connection Protection Degree:	IP 67
Connector Type:	MC4
Anti-Glare / Anti-Reflection:	yes

Efficiency is up to 23+% 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.

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.