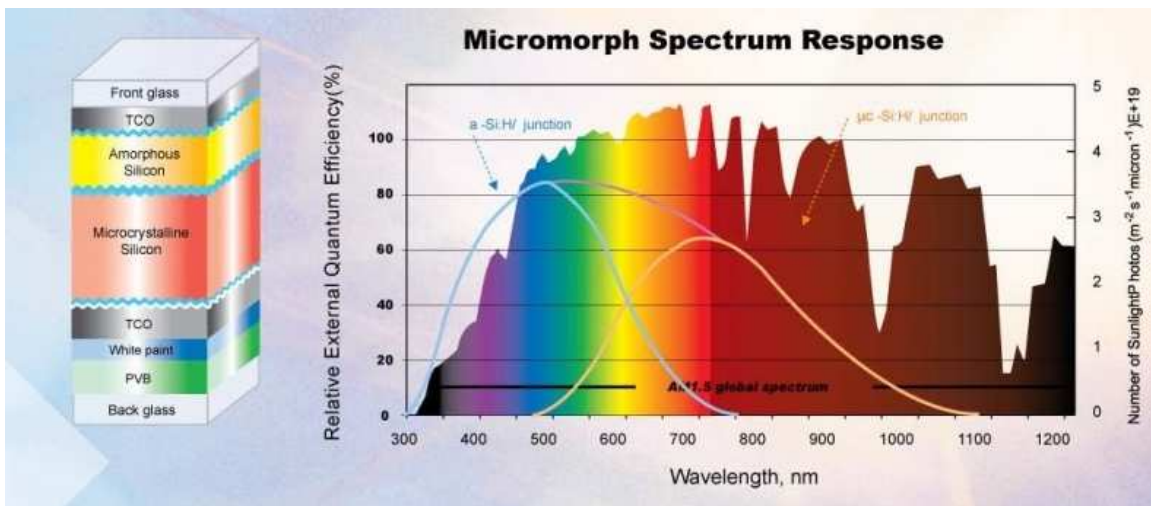


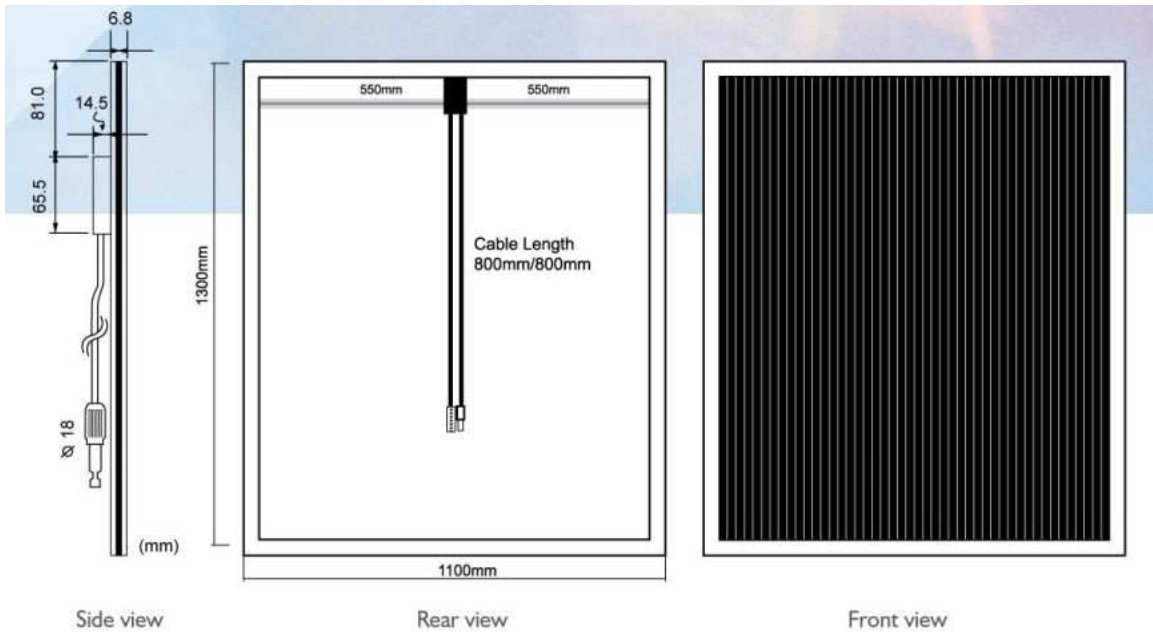
RCI Micromorph Thin Film Photovoltaic Solar Modules

RCI Micromorph solar modules have a tandem structure with an additional microcrystalline absorber underneath amorphous layer, which converts the energy of the red and near infrared spectrum, allow an efficiency boost of approximately 50%



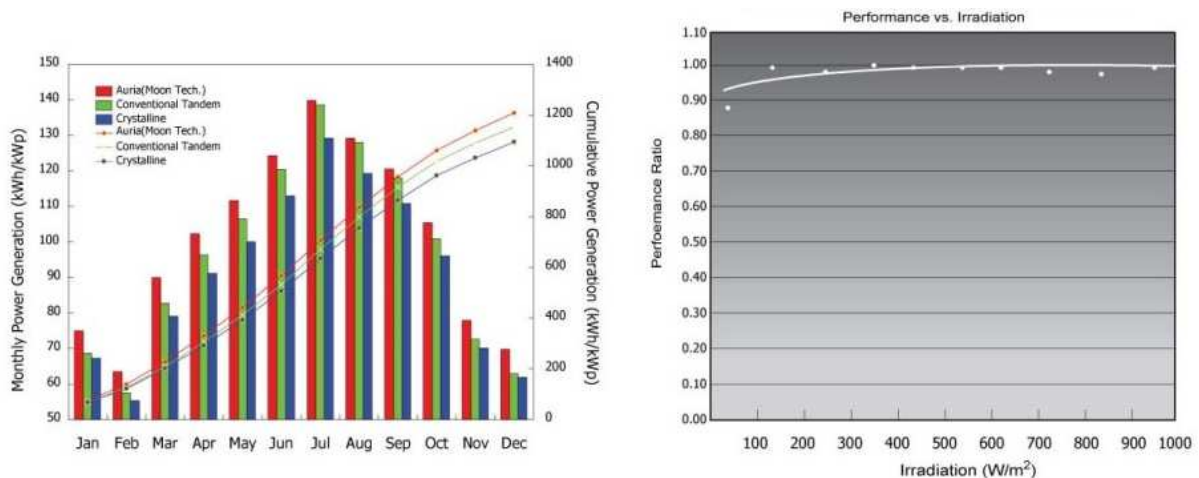
Product Features:

- Total solution for mounting system which ensures easy, quick & optimized installation.
- Roust structure with double-glass design &PVB lamination material.
- 20 year long product warranty
- Certified by IEC 61646 & 61730 : ID 0000024521
- CSA Approved for Canada
- Thin film solar module
- Innovated and state of the art technologies filing 50 patents for world class high efficiency modules.



Moon Technology

1. Efficiency Enhanced
 - Stabilized output power (P_{mpp}) enhancement up to 10%
2. Better Energy Yield
 - Excellent low light performance through significantly improved shunt resistance (R_{sh}), energy yield is 10 _ 15% higher.
3. Superior Reliability
 - Leakage resistance surpass the criteria of TUV damp-heat test.
4. Micromorph modules use low voltage (90V, 60V, 30V) for customer satisfaction.



RCI Micromorph Thin Film Modules

Electrical Characteristics (STC: 1000W/m²; 25°C; AM1.5)

Product Name	M115000	M120000	M125000	M130000	M135000	M140000
Rated Power (Wp ± 3%)	115.0	120.0	125.0	130.0	135.1	140.1
Max. Power Voltage Vmpp (V)	92.2	93.5	95.5	97.5	99.5	101.5
Max. Power Current Imp (A)	1.25	1.29	1.31	1.34	1.37	1.39
Open Circuit Voltage Voc (V)	126.3	127.6	129.6	131.7	133.8	135.8
Short Circuit Current Isc (A)	1.49	1.52	1.54	1.56	1.58	1.60

Low Irradiation Electrical Characteristics (200W/m²; 25°C; AM 1.5)

Product Name	M115000	M120000	M125000	M130000	M135000	M140000
Rated Power (Wp)	23.1	24.1	25.1	26.1	27.1	28.1
Max. Power Voltage Vmpp (V)	85.4	86.7	88.5	90.4	92.2	94.1
Max. Power Current Imp (A)	0.27	0.28	0.28	0.29	0.30	0.30
Open Circuit Voltage Voc (V)	114.3	115.5	117.3	119.2	121.1	122.9
Short Circuit Current Isc (A)	0.34	0.35	0.35	0.36	0.36	0.36

Qualifications and Certificates

TÜV Rheinland	IEC61646 & IEC61730
UL1703/CEC	Available
CE	Available

Limited Warranty

Material and Workmanship Warranty	5 Years
90% of the Minimal Rated Power Output	10 Years
80% of the Minimal Rated Power Output	20 Years

Mechanical Characteristics

Dimensions	1,100 mm x 1,300 mm
Thickness	6.8 mm (without Junction Box)
Weight	23kg
Frame Material	Optional upon request
Junction Box	Multi-Contact, with Bypass Diode
Connectors	MC4 compatible
Glass Type	Front: 3.2mm low iron glass Back: 3.2mm tempered glass

Electrical Data

Nominal Operation Cell Temperature(NOCT)	45°C
Temperature Coefficient of Pmpp (%/K)	- 0.25
Temperature Coefficient of Voc (%/K)	- 0.30
Temperature Coefficient of Isc (%/K)	+0.07
Maximum System Voltage (V)	1000
Reverse Current Overload (A)	3

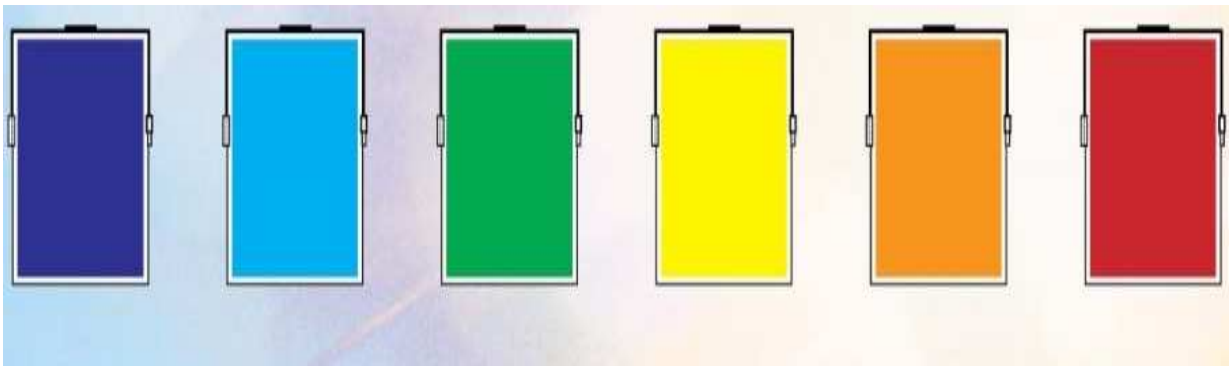
RCI Micromorph BIPV Modules

RCI's thin film PV modules are ideal for building integrated photovoltaic (BIPV) applications. They not only generate electric energy from the sun but also can be customized to be any colour to match any specific architectural design. In addition, they have outstanding anti-UV properties and thus offer an alternative choice to conventional low-e glass used in eco-architects.

With our patented Azur technology and custom made design as well as manufacturing partnership capabilities, our BIPV modules can be tailored to be any colour in the whole spectrum of visible light and can even be fine tuned to be versatile colours, such as light blue, blue and deep blue.

Due to RCI's superior technology and uncompromised quality control on the manufacturing processes, our thin filmed PV modules have superb and unprecedented uniformity in colour and appearance. They offer architects extra degrees of freedom in choosing the colours for their BIPV modules, particularly suitable for appearance-oriented building, e.g. land marketing, tall buildings or public architecture.

Full Range Colour Micromorph BIPV Solar Modules



RCI Micromorph BIPV Modules

Electrical Characteristics(STC:1000W/m ² ; 25°C; AM1.5)						
Color	Purple	Blue	Green	Golden	Orange	Red-Wine
Transmittance (400~800nm)*	10~20%	10~20%	10~20%	10~20%	10~20%	10~20%
Rated Power (Wp ± 3%)*	40~100W	40~100W	40~100W	40~100W	40~100W	40~90W
Max. Power Voltage Vmpp (V)	85~105	85~105	85~105	85~105	85~105	85~105
Max. Power Current Imp (A)	0.47~0.96	0.47~0.96	0.47~0.96	0.47~0.96	0.47~0.96	0.47~0.96
Open Circuit Voltage Voc (V)	110~125	110~125	110~125	110~125	110~125	110~125
Short Circuit Current Isc (A)	0.55~1.02	0.55~1.02	0.55~1.02	0.55~1.02	0.55~1.02	0.55~1.02

* can be customized upon request

Mechanical Characteristics	
Dimensions (W×L)	1,100 mm x 1,300 mm
Thickness	Front: 3.2mm low iron glass PVB: 0.76mm Back: 3.2mm tempered glass
Weight	23kg
Maximum glass size	2,200 mm x 2,600 mm
Junction Box	Yukita pen type
Connectors	MC3 compatible

Limited Warranty	
Material and Workmanship Warranty	5 Years
90% of the minimal rated Power Output	10 Years
80% of the minimal rated Power Output	20 Years

Temperature Coefficients	
Nominal Operation Cell Temperature(NOCT)	45°C
Temperature Coefficient of Isc	+0.07%/K
Temperature Coefficient of Voc	-0.30%/K
Temperature Coefficient of Pmpp	-0.25%/K

Electrical Data	
Maximum System Voltage (V)	1000
Bypass Diodes	Optional
Reverse Current Loading(A)	3

