

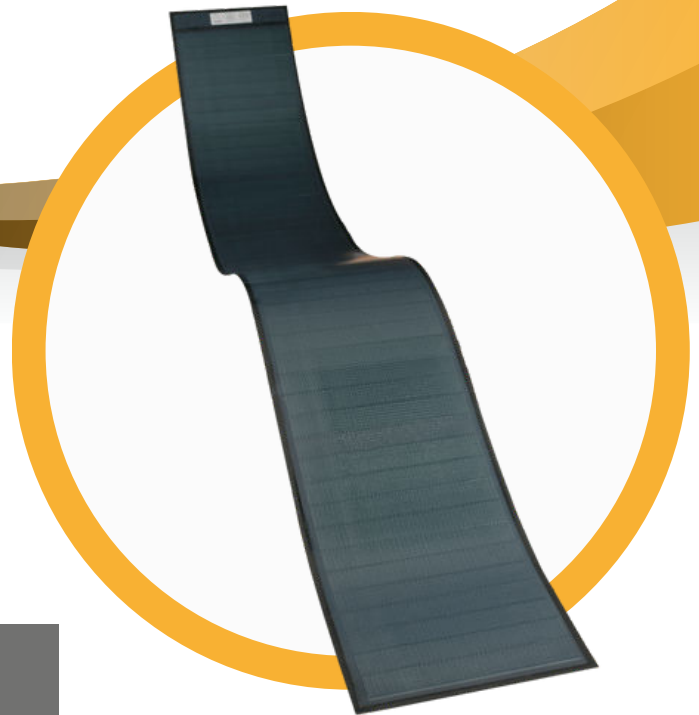
# FLEXTRON

**FLEXIBLE, PEEL AND STICK**

FLEXTRON is a lightweight, integrated peel-and-stick solar PV module.

FLEXTRON can be applied to a range of approved roofing substrates to create an integrated PV solar roof system.

FLEXTRON modules can be sold independently or with a roof system as a package.



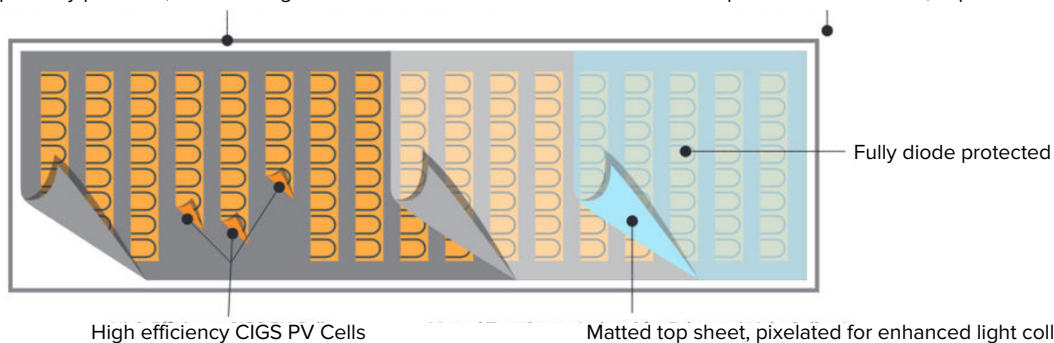
## FEATURES AND BENEFITS

- Cell efficiency, up to 17%
- Industry-leading thin film technology
- No ballast, penetrations or racking required
- Low installed weight of less than 3kg/m<sup>2</sup>
- Improved aesthetics
- Multiple bypass diode design to improve performance in shading and low light
- 10-year product warranty & 25-year performance

## MODULE LAYERS

Cells held in place by pressure, no soldering needed

Multiple cell interconnects, improved energy harvesting



The information contained within this document is correct at the time of publication. BiPVco does not accept liability for errors or information found to be misleading. The company reserves the right to change product details and specifications without prior notice.



### ELECTRICAL PERFORMANCE AT STC

ONE CELL WIDTH MODULES - 356MM			MIN	MAX
Module Length	mm		1030	5067
Nominal Power	Pmax	[W]	40	245
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	Vmp	[V]	11.00	61.60
Maximum Power Current	Imp	[A]	3.85	
Open Circuit Voltage	Voc	[V]	13.35	74.77
Short Circuit Current	Isc	[A]	4.42	
Maximum Series Fuse Rating		[A]	10	
Maximum System Voltage		[V]	1000	
Cell Efficiency		%	15.70%	
Watts Per Square Meter	W/m <sup>2</sup>		108	135
Cells / Bypass Diodes Per Module			20/10	112/56

THREE CELL WIDTH MODULES - 990MM			MIN	MAX
Module Length	mm		504	2609
Nominal Power	Pmax	[W]	50	355
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	Vmp	[V]	13.20	92.40
Maximum Power Current	Imp	[A]	3.85	
Open Circuit Voltage	Voc	[V]	16.02	112.15
Short Circuit Current	Isc	[A]	4.42	
Maximum Series Fuse Rating		[A]	10	
Maximum System Voltage		[V]	1000	
Cell Efficiency		%	15.70%	
Watts Per Square Meter	W/m <sup>2</sup>		100	137
Cells / Bypass Diodes Per Module			24/12	168/84

TWO CELL WIDTH MODULES - 674MM			MIN	MAX
Module Length	mm		592	3837
Nominal Power	Pmax	[W]	40	355
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	Vmp	[V]	11.00	92.40
Maximum Power Current	Imp	[A]	3.85	
Open Circuit Voltage	Voc	[V]	13.35	112.15
Short Circuit Current	Isc	[A]	4.42	
Maximum Series Fuse Rating		[A]	10	
Maximum System Voltage		[V]	1000	
Cell Efficiency		%	15.70%	
Watts Per Square Meter	W/m <sup>2</sup>		100	137
Cells / Bypass Diodes Per Module			20/10	168/84

Standard Test Conditions (STC): 1000W/m<sup>2</sup>, 25°C cell temperature, AM 1.5 spectrum.

### THERMAL CHARACTERISTICS

Nominal Power	[°C]	56.2
Temperature Coefficient of P	[%/°C]	-0.268
Temperature Coefficient of V	[%/°C]	-0.209
Temperature Coefficient of I	[%/°C]	-0.0007
Module Operating Range	[°C]	-40 to +84

### PHYSICAL CHARACTERISTICS

Thickness, maximum and J-Box, module	mm	19
Thickness, laminate without adhesive	mm	2.5
Thickness, laminate with adhesive	mm	3.5
Weight/area (module without adhesive)	kg/m <sup>2</sup>	2.23
Weight/area (module with adhesive)	kg/m <sup>2</sup>	3.81
Junction box type	kg/m <sup>2</sup>	IP67
Cell type		IP68
Certification		IEC 61730-1, IEC 61730-2, IEC 61646, KIWA
MCS		MCS 017 (TUV SUD / BAPT)
Quality system		ISO 9001 (SGS)
Warranty		10-year product warranty and 25-year performance

