BIPVco
The Building Integrated Photovoltaic Company

DATA SHEET
FEBRUARY 2026

FLEXTRON CIGS

FLEXIBLE, PEEL AND STICK

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

Flextron CIGS is available in three standard forms; 358mm for standing seam, 674mm and 990mm for flat roofs. with nominal outputs from 45W – 400W.

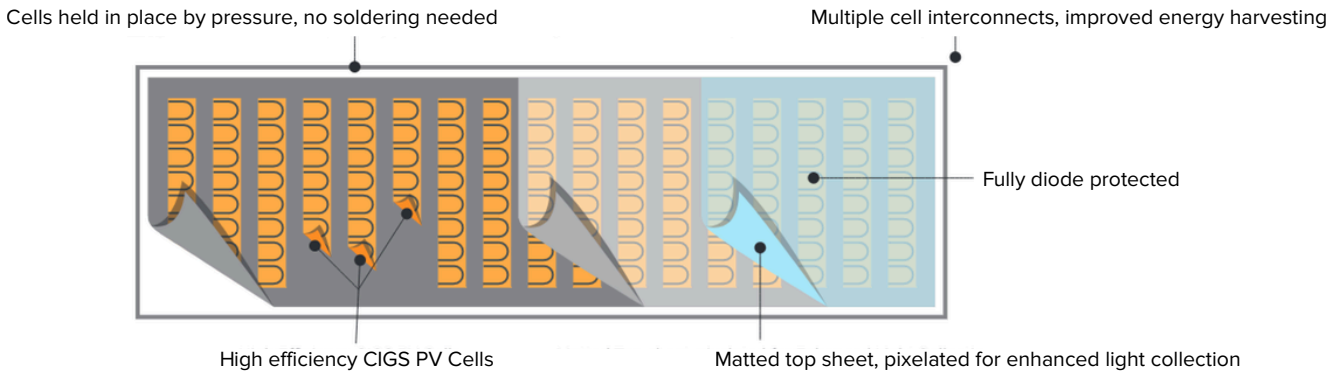
Flextron CIGS can be integrated onto multiple approved substrates (metals & non-metals) on site or in controlled conditions either in BIPVco facility or at an approved integrator facility.

The flexible nature of Flextron CIGS along with its other attributes of a self-cleaning top sheet, superior thermal degradation and lightweight makes it truly a universal product with multiple applications.

FEATURES AND BENEFITS

- **Cell efficiency, up to 18.5%**
- **Industry-leading thin film technology**
- **Self-cleaning top sheet providing hassle-free maintenance**
- **Low installed weight of less than 4kg/m2**
- **Improved low-level light performance captures more light during the day, including cloudy days**
- **Multiple bypass diodes avoid disproportionate loss of outputs when shaded**
- **No ballast, penetrations or racking required**
- **Fire rated, certified to the highest rating in accordance with EN 13501-5:2016 and classified B ROOF (t4)**
- **Certified to IEC 61215, IEC 61730-1 and IEC 61730-2 and**
- **Made in the UK**
- **25-year performance warranty**

MODULE LAYERS



FLEXTRON CIGS

TECHNICAL CHARACTERISTICS

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ELECTRICAL PERFORMANCE AT STC

ONE CELL WIDTH MODULES - 358MM			MIN	MAX
Module Length		mm	942	5067
Nominal Power	Pmax	[W]	45	270
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	Vmp	[V]	10.49	65.30
Maximum Power Current	Imp	[A]	4.12	4.12
Open Circuit Voltage	Voc	[V]	12.76	79.41
Short Circuit Current	Isc	[A]	4.49	4.49
Maximum Series Fuse Rating		[A]	10	
Maximum System Voltage		[V]	1000	
Cell Efficiency (encapsulated)		%	17.5%	
Watts Per Square Meter		W/m^2	133.53	148.84
Cells / Bypass Diodes Per Module			18/9	112/56

TWO CELL WIDTH MODULES - 674MM			MIN	MAX
Module Length		mm	592	3837
Nominal Power	Pmax	[W]	50	400
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	Vmp	[V]	11.66	97.38
Maximum Power Current	Imp	[A]	4.12	4.10
Open Circuit Voltage	Voc	[V]	14.18	118.78
Short Circuit Current	Isc	[A]	4.49	4.10
Maximum Series Fuse Rating		[A]	10	
Maximum System Voltage		[V]	1000	
Cell Efficiency (encapsulated)		%	17.5%	
Watts Per Square Meter		W/m^2	125.31	175.22
Cells / Bypass Diodes Per Module			20/10	168/84

Standard Test Conditions (STC): 1000W/m2, 25ºC cell temperature, AM 1.5 spectrum.

THREE CELL WIDTH MODULES - 990MM			MIN	MAX
Module Length		mm	416	2609
Nominal Power	Pmax	[W]	45	400
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	Vmp	[V]	10.49	97.38
Maximum Power Current	Imp	[A]	4.12	4.10
Open Circuit Voltage	Voc	[V]	12.76	118.78
Short Circuit Current	Isc	[A]	4.49	4.48
Maximum Series Fuse Rating		[A]	10	
Maximum System Voltage		[V]	1000	
Cell Efficiency (encapsulated)		%	17.5%	
Watts Per Square Meter		W/m^2	109.27	154.85
Cells / Bypass Diodes Per Module			18/9	168/84

THERMAL CHARACTERISTICS

Nominal Power	[ºC]	56.2
Temperature Coefficient of P	[%/ºC]	-0.268
Temperature Coefficient of V	[%/ºC]	-0.209
Temperature Coefficient of I	[%/ºC]	-0.0007
Module Operating Range	[ºC]	-40 to +85

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^2	2.23
Weight/area (module with adhesive)	kg/m^2	3.81
Quality system		ISO 9001 (SGS)
Warranty		10-year product warranty and 25-year performance

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.

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MCS CERTIFIED

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