

FLEXTRON POWERPLUS

HIGH-EFFICIENCY SEMI-FLEXIBLE SOLAR PV MODULES

FLEXTRON PowerPlus is a high-efficiency 'peel and stick', highly durable and lightweight semi-flexible crystalline silicon (c-Si) solar module.

Modules are attached to the approved substrate to create a roofing system that can be installed in the same way as a conventional roof.



TECHNICAL CHARACTERISTICS

TWO STRING MODULES			MIN	MAX
Nominal Power	P _{max}	[W]	65	290
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	V _{mp}	[V]	6.49	29.21
Short Circuit Current	I _{sc}	[A]	10.63	10.63
Open Circuit Voltage	V _{oc}	[V]	7.88	35.45
Maximum Series Fuse Rating		[A]	20	
Maximum System Voltage		[V]	1000	
Cell Efficiency (encapsulated)		%	22.4	
Module Width		mm	366	366
Module Length		mm	1209	4758
Watts Per Square Meter		W/m ²	155	175

FOUR STRING MODULES			MIN	MAX
Nominal Power	P _{max}	[W]	85	385
Power Output Tolerance		[W]	+ / - 5%	
Maximum Power Voltage	V _{mp}	[V]	8.66	38.75
Short Circuit Current	I _{sc}	[A]	10.63	10.59
Open Circuit Voltage	V _{oc}	[V]	10.50	47.12
Maximum Series Fuse Rating		[A]	20	
Maximum System Voltage		[V]	1000	
Cell Efficiency (encapsulated)		%	22.4	
Module Width		mm	706	706
Module Length		mm	852	3216
Watts Per Square Meter		W/m ²	149	183

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

The information contained within this document is correct at the time of publication. The company reserves the right to change product details and specifications without prior notice.

FEATURES AND BENEFITS

- Cell efficiency, up to 24%
- High efficiency crystalline silicon solar modules
- Multiple bypass diode design to improve performance in shading/low light
- Semi-flexible solar panels featuring a low maintenance, self-cleaning top sheet
- No ballast, penetrations or racking required
- Low installed weight of less than < 4kg/m²
- Improved aesthetics
- Certified to IEC 61215, IEC 61730-1 and IEC 61730-2
- Quality system ISO 9001 (SGS)
- Made in the UK
- 25-year performance warranty

THERMAL CHARACTERISTICS

Temperature Coefficient of P _{mp}	[%/°C]	-0.39
Temperature Coefficient of V _{oc}	[%/°C]	-0.325
Temperature Coefficient of I _{sc}	[%/°C]	-0.0065
Module Operating Range	[°C]	-40 to +85



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