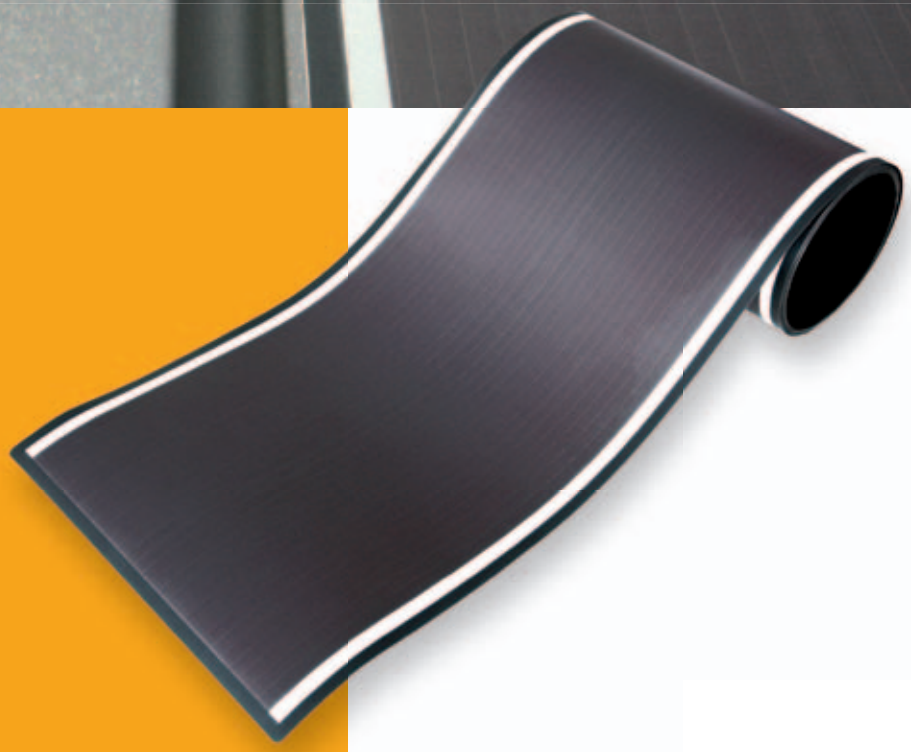
HyET Solar
Flexible lightweight solar modules

- Lightweight
- Unbreakable
- High efficiency
- Low installation cost

Powerfoil®

for roofs that standard modules cannot reach



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PowerFoil® 165

Electrical characteristics

Measured at Standard test conditions

(STC; 25 °C cell temperature, insolation 1000 W/m², AM 1.5)

Rated Power	P_{max}	165 W
Production tolerance of	P_{max}	±5 %
Rated Voltage	V_{mpp}	28 V
Rated current	I_{mpp}	5,9 A
Open circuit voltage	V_{oc}	38,1 V
Short circuit current	I_{sc}	6,5 A

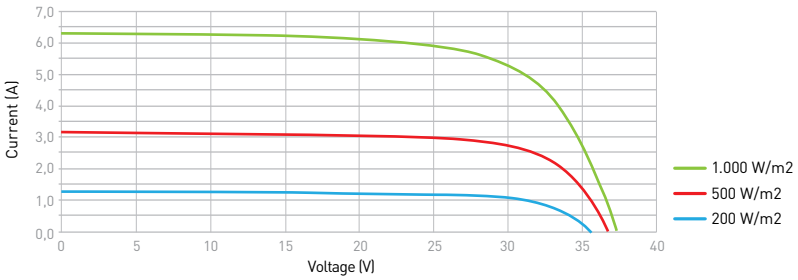
Measured at Nominal Operating Cell Temperature

(NOCT; ambient temperature 20 °C, insolation 800 W/m², AM 1.5, 1 m/s wind speed)

NOCT		45°C
Maximum Power	P_{max}	132 W
Voltage at max. power	V_{mpp}	28,0 V
Current at max. power	I_{mpp}	4,7 A
Open circuit voltage	V_{oc}	36 V
Short circuit current	I_{sc}	5,3 A

Note: *During the first weeks of operation, electrical output may exceed specified ratings. Power output may be higher by 15%, operating voltage may be higher by 5 %, operating current may be higher by 10 %*

Typical characteristics at varying irradiance levels (25 °C cell temperature, AM 1.5)



Temperature coefficients (Tc)

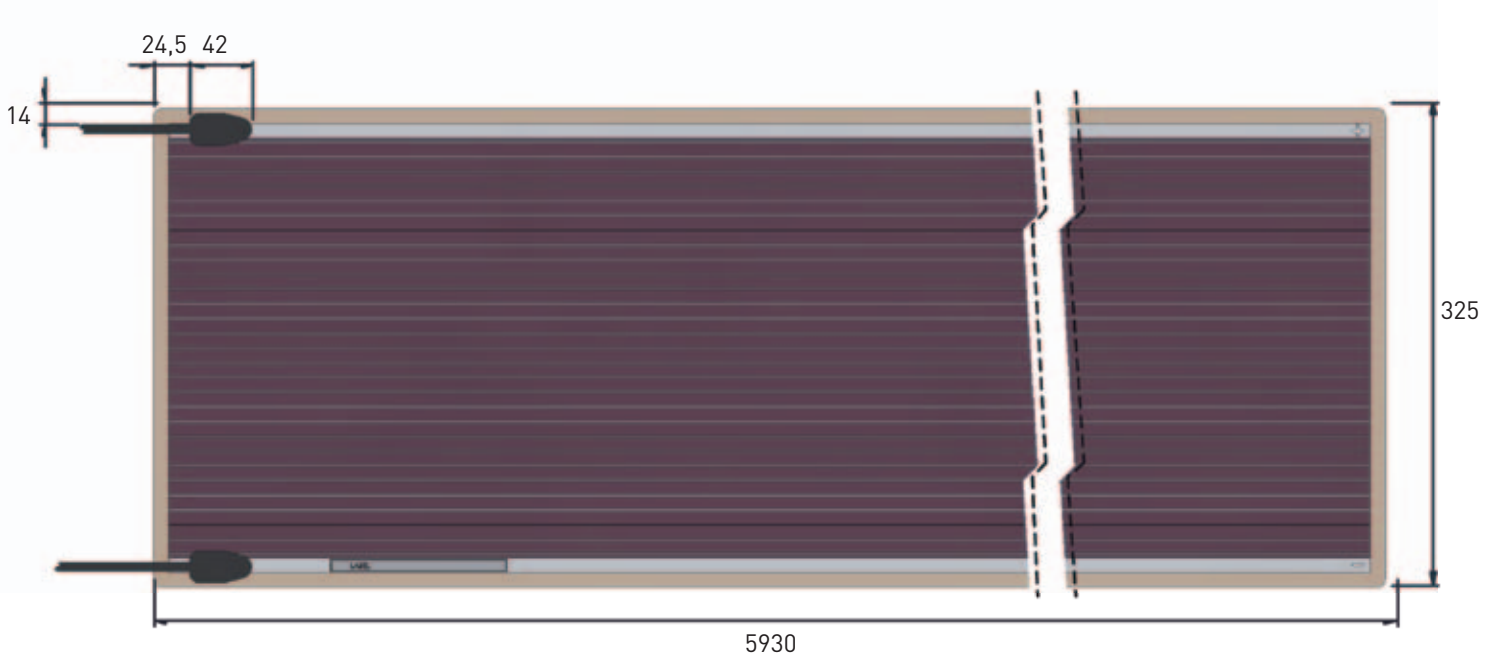
Tc of P_{max}	(% / °C)	-0,25 %
Tc of V_{oc}	(% / °C)	-0,30 %
Tc of I_{sc}	(% / °C)	0,10 %

Installation data

Application class	Class A at IEC 61730
Operating temperature	- 40°C to + 85 °C
Maximum system voltage	500 V
Maximum series fuse rating	13 A

General characteristics

Dimensions	5930x325x0.4 mm, depth at junction box 12 mm
Weight	1.3 kg
Cell type	28 amorphous/microcrystalline tandem silicon solar cells (5910X10 mm), connected in series
Front sheet	fluorine polymer
Junction	EPIC Solar Map
Connector	quick-connect terminal (overmoulded)
Cable type	Solar cable (4.0 mm²), length 325 mm



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