

The perfect solution for all solar installations, at 60% of the conventional cost.

## HyET Powerfoil

Cost effective

Highly flexible

Low BoS costs

Easy to apply

Xlt high temp and low light performance

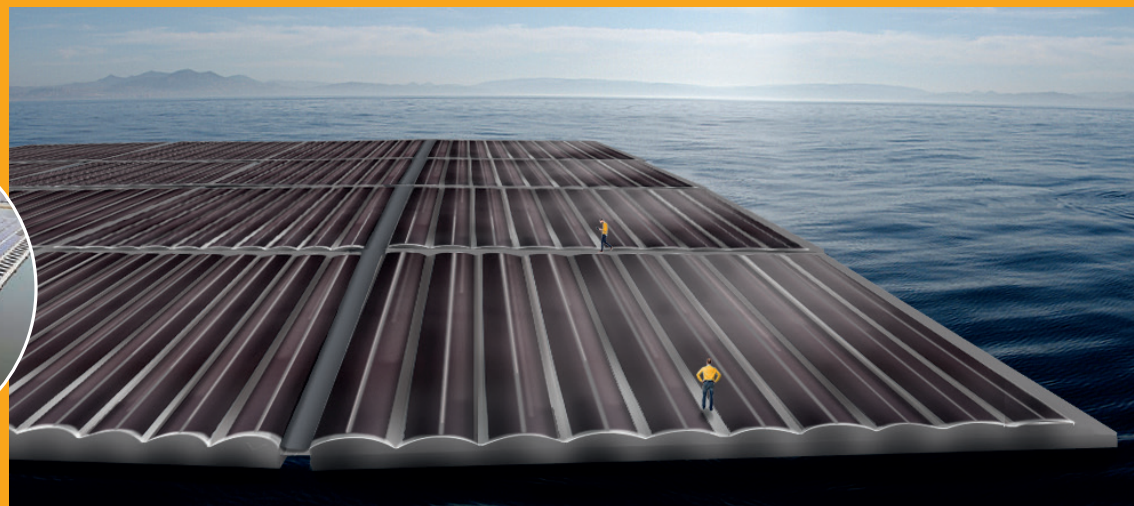
Low weight



## LOW COST AND VERSATILE SOLAR MODULES

### floating solar PV

- Suitable for large scale application
- Low weight allows for cost effective floating structures
- Flexibility absorbs strong wave motion
- Insensitive to salt water
- Low cost installation procedure



#### 100 MWp Floating Solar Plant

#### FLOATING c-Si 18%



#### Floating HyET Solar Powerfoil HE

Total Module Area	932,921	1,078,096	m <sup>2</sup>
Total Module Weight	6,374,424	512,292	kg
Area ratio	60	77	%
Total output	178	182	GWh/yr
<b>Costs</b>			
PV Module	0.282	0.180	US\$
BoS Mechanical	0.427	0.150	US\$
BoS Electrical	0.136	0.156	US\$
BoS Plan area	-	-	US\$
BoS Transport	0.013	0.007	US\$
Fixed Costs	0.130	0.130	US\$
Total System Costs	0.988	0.623	US\$
<b>LCOE</b>	<b>0.0278</b>	<b>0.0171</b>	<b>US\$/kWh</b>

**COST  
EFFECTIVE  
LOW WEIGHT  
FLEXIBLE**

## Electrical characteristics

### Measured at Standard test conditions

(STC; 25°C cell temperature, insolation 1000 W/m<sup>2</sup>, AM 1.5)

Rated power	$P_{max}$	152 W/m
Production tolerance of	$P_{max}$	±5 %
Rated voltage	$V_{mpp}$	198 V
Rated current	$I_{mpp}$	0.77 A/m
Open circuit voltage	$V_{oc}$	255.6 V
Short circuit current	$I_{sc}$	0.84 A/m

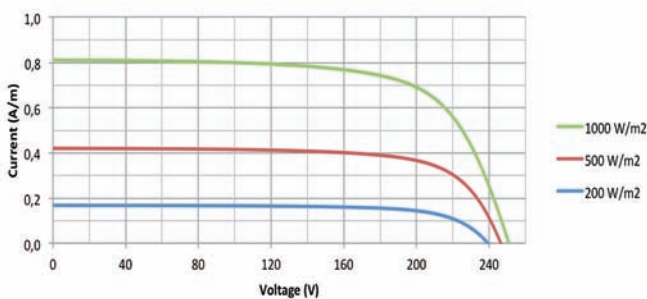
### Measured at Nominal Operating Cell Temperature

(NOCT; ambient temperature 20°C, insolation 800 W/m<sup>2</sup>, AM 1.5, 1m/s wind speed)

NOCT		45°C
Maximum power	$P_{max}$	121 W/m
Voltage at max. power	$V_{mpp}$	198 V
Current at max. power	$I_{mpp}$	0.61 A/m
Open circuit voltage	$V_{oc}$	242 V
Short circuit current	$I_{sc}$	0.69 A/m

*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%. Values are subjective to customization.*

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



### Temperature coefficients (Tc)

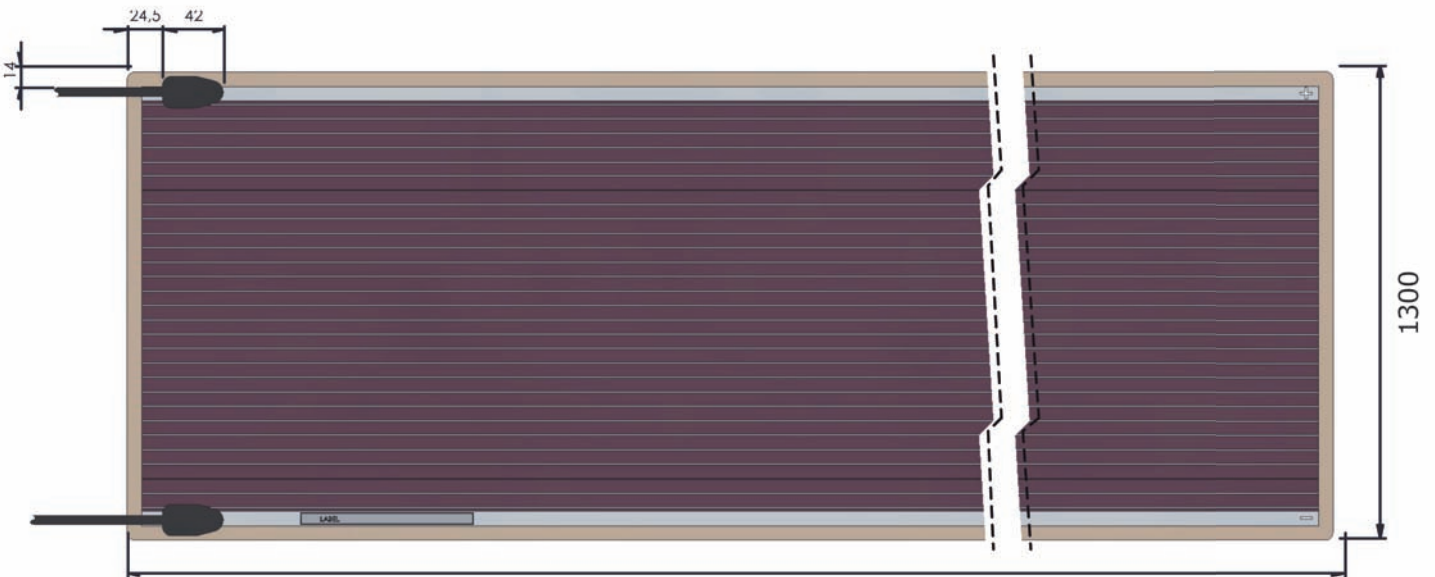
Tc of $P_{max}$ (%/°C)	-0.25 %
Tc of $V_{oc}$ (%/°C)	-0.30 %
Tc of $I_{sc}$ (%/°C)	0.10 %

### 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 per meter length

Dimensions	Lx1300x0.4 mm, depth at junction box 12 mm
Weight	0.78 kg/m
Cell type	Powerfoil 1300: 180 amorphous/microcrystalline tandem silicon solar cells (Lx7 mm), connected in series
Front sheet	Fluorine polymer
Junction box	Tapollop
Connector	MC4 compatible quick-connected terminal
Cable type	Solar cable (4.0 mm <sup>2</sup> ), length 325 mm



3,000 < L < 15,000 mm