

# THE MARITIME MODULE



ULTRA-LIGHTWEIGHT



FLEXIBILITY



OPTIONAL BIFACIAL CELLS



EXTREME WEATHER CONDITIONS



SPECIAL CUSTOMIZED SOLUTIONS



HIGHER ENERGY YIELD



## THERMAL CHARACTERISTICS

Operating temperature range	-40°C to +85°C
Temperature coefficient Pmpp	-0.393 % / °C
Temperature coefficient Voc	-0.310 % / °C
Temperature coefficient Isc	+0.051 % / °C

## TECHNICAL DATA

Solar cells	5BB monocrystalline solar cells
Maximum system voltage	1000 V
Maximum reverse current	20 A
Isc	9.043 A
Imp	8.6 A
Weight	from 2.5 kg/m <sup>2</sup> (typically 3.3 kg/m <sup>2</sup> )
Front sheet	Soil-resistant ETFE-Film
Encapsulation	Patented fiberglass-reinforced plastic
Back sheet	High-resistance PET
Junction box	TÜV-certified (IP67/68) with bypass-diodes
Cables	2 x 4 mm <sup>2</sup>
Connector	PV4-S

# THE MARITIME MODULE

AVAILABLE STANDARD SIZES

Please contact us for any other size or format.



Module length	Order code	Number of cells	12x1M FJB 12x1M	12x2M FJB 12x2M	12x3M FJB 12x3M	12x4M FJB 12x4M	12x5M FJB 12x5M	12x6M FJB 12x6M	
			Wp	Voc	Vmp	Wp	Voc	Vmp	Wp
2024 mm FJB* or 1975 mm**	12		<b>55 Wp</b> 8.04 Voc 6.40 Vmp	<b>115 Wp</b> 16.08 Voc 13.38 Vmp	<b>170 Wp</b> 24.11 Voc 19.77 Vmp	<b>225 Wp</b> 32.15 Voc 26.17 Vmp	<b>280 Wp</b> 40.19 Voc 32.56 Vmp	<b>350 Wp</b> 48.23 Voc 41.28 Vmp	
1868 mm FJB* or 1819 mm**	11		<b>50 Wp</b> 7.37 Voc 5.82 Vmp	<b>105 Wp</b> 14.74 Voc 12.21 Vmp	<b>155 Wp</b> 22.10 Voc 18.03 Vmp	<b>210 Wp</b> 29.47 Voc 24.42 Vmp	<b>260 Wp</b> 36.84 Voc 30.24 Vmp	<b>310 Wp</b> 44.21 Voc 36.05 Vmp	
1706 mm FJB* or 1657 mm**	10		<b>45 Wp</b> 6.70 Voc 5.24 Vmp	<b>95 Wp</b> 13.40 Voc 11.05 Vmp	<b>140 Wp</b> 20.10 Voc 16.28 Vmp	<b>190 Wp</b> 26.79 Voc 22.10 Vmp	<b>235 Wp</b> 33.49 Voc 27.33 Vmp	<b>290 Wp</b> 40.19 Voc 34.31 Vmp	
1549 mm FJB* or 1500 mm**	9		<b>40 Wp</b> 6.03 Voc 4.66 Vmp	<b>85 Wp</b> 12.06 Voc 9.89 Vmp	<b>125 Wp</b> 18.09 Voc 14.54 Vmp	<b>170 Wp</b> 24.11 Voc 19.77 Vmp	<b>210 Wp</b> 30.14 Voc 24.42 Vmp	<b>250 Wp</b> 36.17 Voc 29.07 Vmp	
1389 mm FJB* or 1340 mm**	8		<b>35 Wp</b> 5.36 Voc 4.07 Vmp	<b>75 Wp</b> 10.72 Voc 8.73 Vmp	<b>110 Wp</b> 16.08 Voc 12.80 Vmp	<b>150 Wp</b> 21.43 Voc 17.45 Vmp	<b>185 Wp</b> 26.79 Voc 21.52 Vmp	<b>225 Wp</b> 32.15 Voc 26.17 Vmp	
1230 mm FJB* or 1181 mm**	7		<b>30 Wp</b> 4.69 Voc 3.49 Vmp	<b>65 Wp</b> 9.38 Voc 7.56 Vmp	<b>100 Wp</b> 14.07 Voc 11.63 Vmp	<b>130 Wp</b> 18.76 Voc 15.12 Vmp	<b>165 Wp</b> 23.44 Voc 19.19 Vmp	<b>200 Wp</b> 28.13 Voc 23.26 Vmp	
1070 mm FJB* or 1021 mm**	6		<b>25 Wp</b> 4.02 Voc 2.91 Vmp	<b>55 Wp</b> 8.04 Voc 6.40 Vmp	<b>85 Wp</b> 12.06 Voc 9.89 Vmp	<b>115 Wp</b> 16.08 Voc 13.38 Vmp	<b>140 Wp</b> 20.10 Voc 16.28 Vmp	<b>170 Wp</b> 24.11 Voc 19.77 Vmp	
Number of cells		1	2	3	4	5	6		
		204 mm	354 mm	523 mm	673 mm	842 mm	991 mm		
		Module width							

\*Dimensions front junction box (length) \*\* Dimensions rear junction box (length)

## APPLICATIONS

Maritime and others mobile applications

## POWER RANGE 25-350 WP

Tolerances\*  
 ≥ 250 Wp: -0/+10 W  
 < 250 Wp: -5/+5 W  
 Isc: +/- 10%  
 Voc: +/- 10%

\* all electrical data at STC  
 (1.000 W/m<sup>2</sup>, 25 +/- 2 °C,  
 AM 1.5 according to IEC 60904-3)

## HIGH RELIABILITY

IEC 61730 | IEC 61215  
 IEC 62804-1 Potential-induced degradation  
 IEC 61701 Salt mist corrosion  
 IEC 62716 Ammonia corrosion  
 EN 13501-5 B<sub>ROOF</sub> (t1) "Flying sparks test"

## WARRANTY

5-year product warranty  
 10-year linear performance warranty

## SCIENTIFIC PARTNERS AND ASSOCIATIONS



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