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# XSERIES

## MICROMORPH

Electrical Data at STC *			X 115	X 120	X 125	X 130	X 135	X 140
Maximum Electrical Output (+/- 3 %)	$P_{max}$	[W <sub>p</sub> ]	115	120	125	130	135	140
Voltage at $P_{max}$	$U_{mpp}$	[V]	122	124	125	126	127	128
Current at $P_{max}$	$I_{mpp}$	[A]	0,94	0,97	1,00	1,03	1,07	1,10
Open Circuit Voltage	$U_{oc}$	[V]	160	161	161	162	162	163
Short Circuit Current	$I_{sc}$	[A]	1,15	1,18	1,21	1,24	1,27	1,29
Temperature Coefficient of $P_{max}$	$\alpha P_{max}$	[%/K]	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
Temperature Coefficient of $U_{oc}$	$\alpha U_{oc}$	[%/K]	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
Temperature Coefficient of $I_{sc}$	$\alpha I_{sc}$	[%/K]	+0.07	+0.07	+0.07	+0.07	+0.07	+0.07
Maximum System Voltage	$U_{sys}$	[V]	1,000	1,000	1,000	1,000	1,000	1,000
Open Circuit Voltage, initial	$U_{oc, initial}$	[V]	162	163	163	164	164	165
Short Circuit Current, initial	$I_{sc, initial}$	[A]	1,20	1,23	1,26	1,29	1,32	1,34

\* STC: 1,000 W/m<sup>2</sup> irradiance with a spectrum of AM 1.5 at a module temperature of 25 °C

Electrical Data at NOCT **			X 115	X 120	X 125	X 130	X 135	X 140
Voltage at $P_{max}$	$U_{mpp}$	[V]	112	114	115	116	117	118
Current at $P_{max}$	$I_{mpp}$	[A]	0,77	0,80	0,82	0,85	0,88	0,90
Open Circuit Voltage	$U_{oc}$	[V]	147	148	148	149	149	150
Short Circuit Current	$I_{sc}$	[A]	0,94	0,96	0,99	1,01	1,04	1,05
Normal Operating Cell Temperature	NOCT	[°C]	45	45	45	45	45	45

\*\* Electrical data is measured to the irradiance of 800 W/m<sup>2</sup> and a wind velocity of 1 m/s

Electrical Data at 200 W/m <sup>2</sup> ***			X 115	X 120	X 125	X 130	X 135	X 140
Voltage at $P_{max}$	$U_{mpp}$	[V]	112	114	115	115	116	117
Current at $P_{max}$	$I_{mpp}$	[A]	0,22	0,23	0,23	0,24	0,25	0,26
Open Circuit Voltage	$U_{oc}$	[V]	147	148	148	149	149	150
Short Circuit Current	$I_{sc}$	[A]	0,25	0,26	0,27	0,27	0,28	0,29

\*\*\* Electrical data is corresponding to the irradiance indicated above with a spectrum of AM 1.5 at a module temperature of 25 °C

All electrical data are averages of production data and are subject to a measurement tolerance of +/- 5%. Inventux does not issue any guarantee for the accuracy of this data for future production batches. All data may be subject to change without prior notice.



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#### General Data

Module Type/Cells	Micromorph (a-Si/ $\mu$ c-Si)/ 125 cells, monolithic series connection
Design Certification	IEC 61646
Electrical Classification	A (IEC 61730)
Product Warranty/Output Guarantee*	5 years / 10 years on 90 % of $P_{min}$ , 25 years on 80 % of $P_{min}$

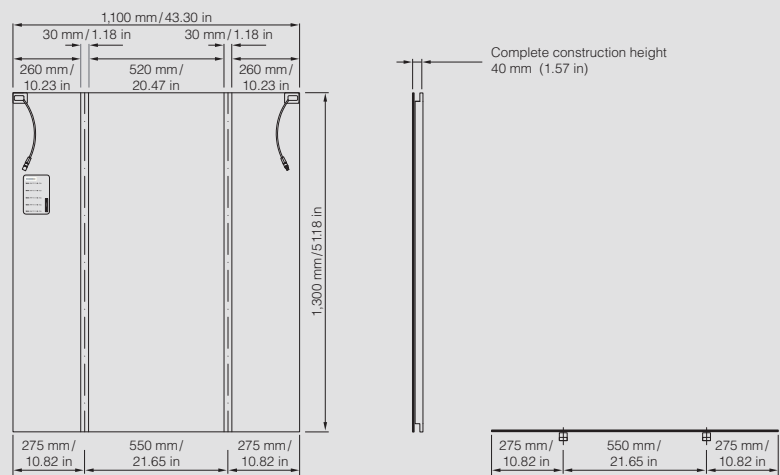
\* Complete and most recent terms and conditions of warranty and guarantee shall prevail

#### Mechanical Data

Dimensions incl. Back Bars (W x H x D)	1,100 mm x 1,300 mm x 40 mm (51.18 in x 43.31 in x 1.57 in)
Surface Area	1.43 m <sup>2</sup> (15.39 sq ft)
Weight	26 kg (57.3 lbs)
Cables	2.5 mm <sup>2</sup> /length 200 mm (7.87 in)
Connectors	LC-3 (MC3 compatible), IP 68 (NEMA 6P)
Module Mounting	Mounting device 'fiX' on back of module
Maximum Load (IEC 61646)	5,400 Pa

#### Packaging Details

Type	Outer packaging of corrugated cardboard on wooden pallet (IPPC)
Packaging Unit	22 modules
Dimensions (W x H x D)	1,200 mm x 1,500 mm x 800 mm (42.24 in x 59.05 in x 31.49 in)
Weight	600 kg (1,322 lbs)
Accessories (included)	44 spacers and 22 cable clips



Rear view, side view, cross section

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