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X SERIES

MICROMORPH 3

new

Electrical Data at STC *			X3-115	X3-120	X3-125	X3-130	X3-135	X3-140
Maximum Electrical Output (-0/+5 W _p)	P _{max} [W _p]		115	120	125	130	135	140
Voltage at P _{max}	U _{mpp} [V]		125	126	127	128	129	130
Current at P _{max}	I _{mpp} [A]		0.92	0.95	0.98	1.02	1.05	1.08
Open Circuit Voltage	U _{oc} [V]		164	164	165	165	166	166
Short Circuit Current	I _{sc} [A]		1.12	1.17	1.20	1.24	1.28	1.32
Temperature Coefficient of P _{max}	α P _{max} [%/K]		-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
Temperature Coefficient of U _{oc}	α U _{oc} [%/K]		-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
Temperature Coefficient of I _{sc}	α I _{sc} [%/K]		+0.07	+0.07	+0.07	+0.07	+0.07	+0.07
Open Circuit Voltage, initial	U _{oc, initial} [V]		167	167	168	168	169	169
Short Circuit Current, initial	I _{sc, initial} [A]		1.15	1.19	1.23	1.27	1.30	1.35

* STC: 1,000 W/m² irradiance with a spectrum of AM 1.5 at a module temperature of 25 °C

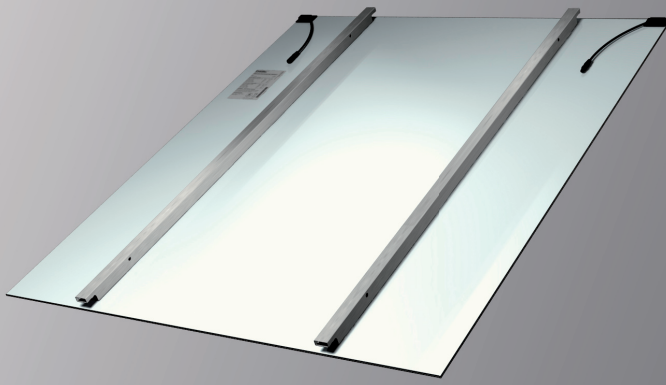
Electrical Data at NOCT **			X3-115	X3-120	X3-125	X3-130	X3-135	X3-140
Voltage at P _{max}	U _{mpp} [V]		115	116	117	118	119	119
Current at P _{max}	I _{mpp} [A]		0.75	0.78	0.81	0.83	0.86	0.88
Open Circuit Voltage	U _{oc} [V]		151	151	152	152	153	153
Short Circuit Current	I _{sc} [A]		0.92	0.95	0.98	1.02	1.04	1.08
Normal Operating Cell Temperature	NOCT [°C]		45	45	45	45	45	45

** Electrical data is measured to the irradiance of 800 W/m² and a wind velocity of 1 m/s

Electrical Data at 200 W/m ² ***			X3-115	X3-120	X3-125	X3-130	X3-135	X3-140
Voltage at P _{max}	U _{mpp} [V]		115	115	116	117	118	119
Current at P _{max}	I _{mpp} [A]		0.22	0.22	0.23	0.24	0.24	0.25
Open Circuit Voltage	U _{oc} [V]		151	151	152	152	153	153
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.



XSERIES
MICROMORPH

General Data

Module Type/Cells	Micromorph (a-Si/ μ c-Si)/ 125 cells, monolithic series connection
Maximum Reverse Current	4 A
Maximum System Voltage	1,000 volt
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}

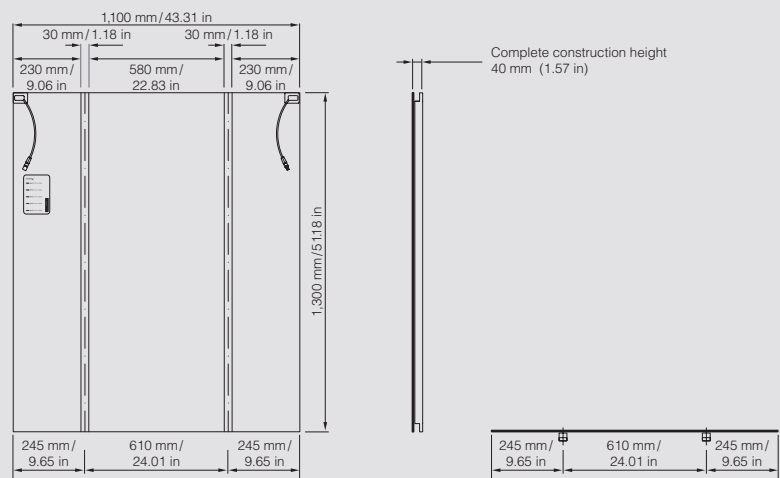
* Complete and most recent terms and conditions of warranty and guarantee shall prevail

Mechanical Data

Dimensions incl. Back Bars (W x H x D)	1,100 mm x 1,300 mm x 40 mm (43.31 in x 51.18 in x 1.57 in)
Surface Area	1.43 m ² (15.39 sq ft)
Weight	26 kg (57.3 lbs)
Cables	2.5 mm ² /length 200 mm (7.87 in)
Connectors	LC3 (MC3 compatible), IP 68
Module Mounting	Stainless steel carrier profiles on back of module
Maximum Angle of Inclination	45°
Maximum Load	4,500 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 (47.24 in x 59.05 in x 31.49 in)
Weight	600 kg (1,322 lbs)



Rear view, side view, cross section