



energize
the earth
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XSERIES

MICROMORPH

| Electrical Data at STC * | | | X 105 | X 110 | X 115 | X 120 | X 125 | X 130 |
|--------------------------------------|-------------------|-------------------|-------|-------|-------|-------|-------|-------|
| Maximum Electrical Output (+/-3 %) | P_{max} | [W _p] | 105 | 110 | 115 | 120 | 125 | 130 |
| Voltage at P_{max} | U_{mpp} | [V] | 96 | 97 | 97 | 98 | 98 | 99 |
| Current at P_{max} | I_{mpp} | [A] | 1.08 | 1.13 | 1.18 | 1.24 | 1.29 | 1.34 |
| Open Circuit Voltage | U_{oc} | [V] | 131 | 132 | 132 | 132 | 132 | 133 |
| Short Circuit Current | I_{sc} | [A] | 1.33 | 1.37 | 1.41 | 1.45 | 1.49 | 1.53 |
| Temperature Coefficient of P_{max} | αP_{max} | [%/K] | -0.25 | -0.25 | -0.25 | -0.25 | -0.25 | -0.25 |
| Temperature Coefficient of U_{oc} | αU_{oc} | [%/K] | -0.30 | -0.30 | -0.30 | -0.30 | -0.30 | -0.30 |
| Temperature Coefficient of I_{sc} | αI_{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] | 133 | 134 | 134 | 134 | 134 | 135 |
| Short Circuit Current, initial | $I_{sc, initial}$ | [A] | 1.44 | 1.48 | 1.53 | 1.57 | 1.61 | 1.66 |

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

| Electrical Data at NOCT ** | | | X 105 | X 110 | X 115 | X 120 | X 125 | X 130 |
|-----------------------------------|-----------|------|-------|-------|-------|-------|-------|-------|
| Voltage at P_{max} | U_{mpp} | [V] | 88.3 | 89.3 | 89.3 | 90.2 | 90.2 | 91.1 |
| Current at P_{max} | I_{mpp} | [A] | 0.89 | 0.93 | 0.97 | 1.02 | 1.06 | 1.10 |
| Open Circuit Voltage | U_{oc} | [V] | 120.7 | 121.6 | 121.6 | 121.6 | 121.6 | 122.5 |
| Short Circuit Current | I_{sc} | [A] | 1.09 | 1.12 | 1.15 | 1.18 | 1.22 | 1.25 |
| 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 *** | | | X 105 | X 110 | X 115 | X 120 | X 125 | X 130 |
|---|-----------|-----|-------|-------|-------|-------|-------|-------|
| Voltage at P_{max} | U_{mpp} | [V] | 87.9 | 88.9 | 88.9 | 89.8 | 89.8 | 90.7 |
| Current at P_{max} | I_{mpp} | [A] | 0.25 | 0.26 | 0.28 | 0.29 | 0.30 | 0.31 |
| Open Circuit Voltage | U_{oc} | [V] | 120.5 | 121.4 | 121.4 | 121.4 | 121.4 | 122.4 |
| Short Circuit Current | I_{sc} | [A] | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 |

*** 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 is subject to a measurement tolerance of +/- 3 %. 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)/99 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} , 20 Years on 80 % of P_{min} |

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

Mechanical Data

| | |
|---------------------------------------|---|
| Dimensions incl. Backbars (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 ² (15.39 sq ft) |
| Weight | 26 kg (57.3 lbs) |
| Cables | 2.5 mm ² /Length 200 mm (7.87 in) |
| Connectors | LC-3 (MC3 compatible), IP 68 (NEMA 6P) |
| Module Mounting | Mounting device fix on back side 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 800 mm x 1,500 mm (42.24 in x 31.49 in x 59.05 in) |
| Weight | 600 kg (1,322 lbs) |
| Accessories (inclusive) | 44 spacers and 22 cable clips |

