

| | |
|----------------|--------------------------------------|
| Length x Width | 1200 mm x 600 mm |
| Thickness | 6.9 mm (21.0 including junction box) |
| Weight | 12.0 kg |
| Front Cover | 3.2 mm glass |
| Back Cover | 3.2 mm glass |
| Cell Type | Cadmium telluride [CdTe] |
| Frame | none |
| Junction Box | Protection Class IP65 |
| By-Pass Diode | none |
| Cable Type | Solar cable 2.5mm ² |
| Cable Length | 650 mm (+Cable), 850 mm (-Cable) |
| Connector | Multicontact MC 4 optional MC3 |

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Note: Installation instructions must be followed. See the instruction and operating manual or contact the technical service for further information on approved installation and use of the product.
 Specifications subject to technical changes. Printed on environment-friendly paper.
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ELECTRICAL CHARACTERISTICS

| POWER CLASS | | | CX1 | CX1 | CX1 | CX1 | CX1 |
|----------------------------|-----------|-----|------|------|------|------|------|
| | | | 75/3 | 77/3 | 80/3 | 82/3 | 85/3 |
| Nominal Power [+10% / -5%] | P_{MPP} | [W] | 75.0 | 77.5 | 80.0 | 82.5 | 85.0 |
| Current at max. Power | I_{MPP} | [A] | 1.29 | 1.30 | 1.32 | 1.33 | 1.35 |
| Voltage at max. Power | V_{MPP} | [V] | 58.3 | 59.7 | 61.0 | 62.6 | 63.8 |
| Short Circuit Current | I_{SC} | [A] | 1.50 | 1.53 | 1.54 | 1.56 | 1.57 |
| Open Circuit Voltage | V_{OC} | [V] | 87.8 | 88.3 | 88.9 | 90.0 | 91.0 |

Performance at normal operating cell temperature (NOCT: 800 W/m², 45 ±2°C, AM 1.5 Spectrum)

| POWER CLASS | | | CX1 | CX1 | CX1 | CX1 | CX1 |
|-----------------------|-----------|-----|------|------|------|------|------|
| | | | 75/3 | 77/3 | 80/3 | 82/3 | 85/3 |
| Nominal Power | P_{MPP} | [W] | 57.6 | 59.5 | 61.4 | 63.4 | 65.3 |
| Current at max. Power | I_{MPP} | [A] | 1.04 | 1.05 | 1.06 | 1.07 | 1.09 |
| Voltage at max. Power | V_{MPP} | [V] | 55.8 | 57.2 | 58.5 | 59.9 | 61.1 |
| Short Circuit Current | I_{SC} | [A] | 1.21 | 1.23 | 1.24 | 1.25 | 1.26 |
| Open Circuit Voltage | V_{OC} | [V] | 84.1 | 84.6 | 85.2 | 86.3 | 87.2 |

Performance at low irradiance

The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (both at 25°C and AM 1.5 spectrum) on request.

Temperature coefficients (at 1000W/m², AM 1.5 Spectrum)

| | | | |
|-----------------------|----------|-------|--------|
| Temperature I_{SC} | α | [%/K] | + 0.03 |
| Temperature V_{OC} | β | [%/K] | - 0.21 |
| Temperature P_{MPP} | γ | [%/K] | - 0.20 |

Properties for system design (IEC)

| | | | |
|-------------------------|-----------|------|------|
| Maximum System Voltage | V_{SYS} | [V] | 1000 |
| Maximum Reverse Current | I_R | [A] | 2.0 |
| Wind / Snow Load | p | [Pa] | 2400 |
| Safety Class | | | II |
| Fire Rating | | | C |

The power classes are defined by sorting of power classes (+2.5W/0W) according to measured PMPP under STC. IMPP, VMPP, ISC, VOC are within ±10% of the indicated values under STC. Valid indoor measurement of STC performance is obtained by pretreating the module before measurement. For more information PAS-11-05-0203-EN.