



CONERGY

Photovoltaic modules | Specifications

## Conergy Q 50PI

### Optimised efficiency

- | Improved UV transmission by using solar glass
- | Reduced reflection because of optimised anti-reflective coating
- | High module efficiency of 12.5 %
- | Better and consistent apparition of the cells

### Resistivity and robustness

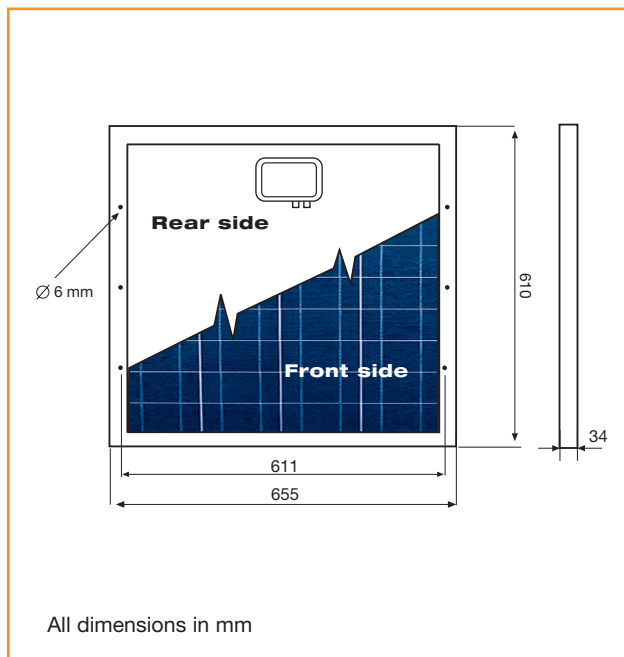
- | Weatherproof junction box: Index of Protection IP 65, operating temperatures  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- | Sturdy, screwed aluminium frame
- | Cells embedded in EVA (ethylene vinyl acetate), thereby high UV resistance and good isolation
- | IEC-testing of modules includes torsion, hailstorm, snow loads, heating and humidity test and mechanical stress

### Simple installation

- | Fast screwing with 4 fixing holes
- | Spring-type terminal up to  $6\text{ mm}^2$
- | User-friendly design of junction box, comfortable connection of cables

### Warranties and certificates

- | 10 year warranty on 90 % of the nominal power<sup>1</sup>
- | 25 year warranty on 80 % of the nominal power<sup>1</sup>
- | Product warranty: 5 years<sup>1</sup>
- | IEC 61215



### Electrical specifications

Nom. power rating ( $P_{\text{NOM}}$ ) as per STC <sup>2</sup>	50 W
Tolerance of the nominal power ( $P_{\text{NOM}}$ )	$\pm 5\%$
MPP voltage ( $V_{\text{MPP}}$ )	16.5 V
MPP current ( $I_{\text{MPP}}$ )	3.04 A
Open circuit voltage ( $V_{\text{OC}}$ )	20.0
Short circuit current ( $I_{\text{SC}}$ )	3.47 A
Temperature coefficient ( $P_{\text{MPP}}$ )	$-0.46\% / ^{\circ}\text{C}$
Temperature coefficient ( $V_{\text{OC}}$ )	$-0.072\text{ V} / ^{\circ}\text{C}$
Temperature coefficient ( $I_{\text{SC}}$ )	$4.4\text{ mA} / ^{\circ}\text{C}$
Maximum system voltage	600 V

### Cell specifications

Cells	polycrystalline
Number of cells	36
Cell dimensions	156 x 60 mm

### Module dimensions

Dimensions (L x W x H)	610 x 655 x 34 mm
Weight	6.0 kg

<sup>1</sup> According to current Conergy warranty conditions

<sup>2</sup> Standard Test Conditions: irradiance  $1000\text{ W}/\text{m}^2$ , air mass 1.5 (ASTM E 892) and cell temperature  $25^{\circ}\text{C}$ .

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