



Latitude Solar  
BASE LINE



LATITUDE**SOLAR**

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## Mechanical Specifications

|                              |   |
|------------------------------|---|
| Length:                      | 1651 ± 2 mm                                 |
| Width:                       | 987 ± 2 mm                                  |
| Height:                      | 35 mm                                       |
| Weight:                      | 22 kg                                       |
| Junction box:                | IP65, 3 by-pass diodes, 1000V               |
| Cable:                       | 4 mm <sup>2</sup> , l =1000 mm, 1000V       |
| Glass:                       | 4 mm, hardened, anti-reflection             |
| Cells:                       | Polycrystalline, 60 pcs, 156 x 156 mm       |
| Cell encapsulation material: | EVA (Ethylene-Vinyl-Acetate)                |
| Back sheet material:         | Fluoropolymer/polyester, 1000V              |
| Frame:                       | Aluminium, hollow chamber profile w. flange |

## Temperature coefficients

|                                    |                              |             |
|------------------------------------|------------------------------|-------------|
| Current temperature coefficients   | $\alpha$ (I <sub>sc</sub> )  | + 0.07 %/°K |
| Voltage temperature coefficients   | $\beta$ (U <sub>oc</sub> )   | - 0.33 %/°K |
| Power temperature coefficients     | $\gamma$ (P <sub>mpp</sub> ) | - 0.40 %/°K |
| Nominal Operation Cell Temperature | NOCT                         | 43,5°C      |

## Electrical Characteristics at Standard Test Conditions (STC)

| Name plate power      | P <sub>mpp</sub> * | 230         | 235         | 240         | 245         |
|-----------------------|--------------------|-------------|-------------|-------------|-------------|
| Power sorting range   |                    | 230,0-234,9 | 235,0-239,9 | 240,0-244,9 | 245,0-249,9 |
| Peak power voltage    | U <sub>mpp</sub>   | 29,19       | 29,37       | 29,55       | 29,73       |
| Peak power current    | I <sub>mpp</sub>   | 7,88        | 8,00        | 8,12        | 8,24        |
| Open circuit voltage  | U <sub>oc</sub>    | 36,56       | 36,78       | 36,96       | 37,15       |
| Short circuit current | I <sub>sc</sub>    | 8,27        | 8,38        | 8,49        | 8,60        |
| Module efficiency     |                    | 14,1%       | 14,4%       | 14,7%       | 15,0%       |

Purely positive module classification (-0Wp/+ 4,99Wp)

Maximum system voltage: 1000 V - \*"mpp" stands for Maximum Power Point.

STC: irradiation level 1000 w/m<sup>2</sup>, spectrum AM 1,5 and cell temperature 25°C

Above values are subject to normal production and measurement tolerances (-/+3%)

On request, modules can be delivered with Flash Report.