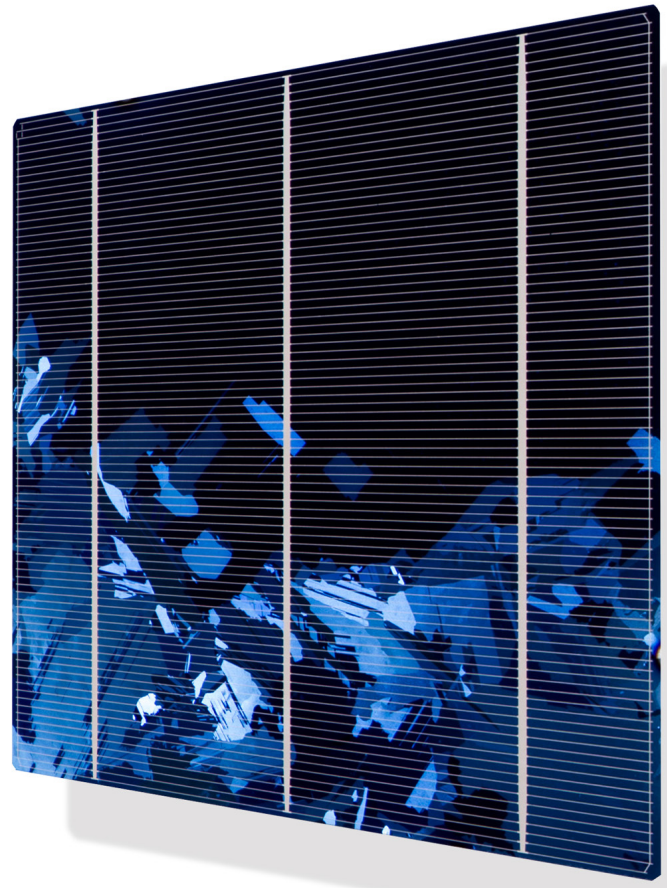


Photowatt® PWCELL6LP-GEN3.1

Crystal Advanced® Solar Cell
CT7H

▶ HIGH QUALITY CELLS

PWCELL6LP-GEN3.1 Crystal Advanced® solar cell benefits from the latest innovations developed by Photowatt. The patented Crystal Advanced® process significantly improves the crystallization process ensuring a best-in-class quality of the heart of the solar cells. The major steps of manufacturing are exclusively performed in France, with the most successful and reliable components on the market.

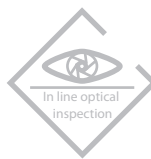


FRENCH SOLAR CELL
CRYSTAL ADVANCED®



100% Made in France
PWCELL6LP is a multicrystalline cell containing up to 95% mono crystals

18,6% - 17,8%
TYPICAL EFFICIENCY



100% in-line optical inspection

CO2
LOW-CARBON



100% inspected for dark current and shunt resistance

FRAUNHOFER
CELLS CALIBRATED BY
FRAUNHOFER ISE



100% compliant with RoHS lead-free regulation

ELECTRICAL CHARACTERISTICS

Efficiency (%)	Power (Wp/Pc)	ISC (A)	Voc (mV)	FF (%)
16.8	4.09	8.64	612	77.9
17	4.14	8.67	615	78.1
17.2	4.19	8.71	618	78.3
17.4	4.23	8.74	620	78.6
17.6	4.28	8.78	622	78.8
17.8	4.33	8.83	625	78.9
18	4.38	8.89	627	79.0
18.2	4.43	8.94	629	79.1
18.4	4.48	8.99	631	79.3
18.6	4.53	9.04	632	79.5

Temperature coefficients

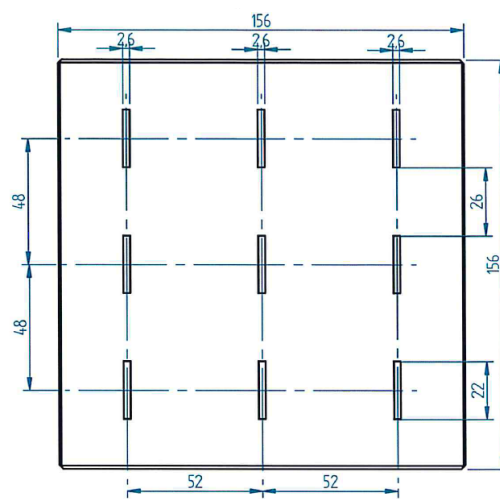
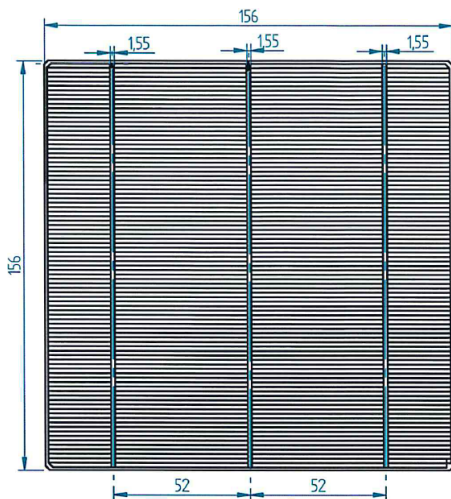
$I_{sc} = +0,06\%/^{\circ}C$; $V_{oc} = -0,34\%/^{\circ}C$; $P_{max} = -0,42\%/^{\circ}C$

Measurement tolerances

+/- 4%

Soldering

Copper ribbons coated with 15 – 20 µm: 62% Sn / 36% Pb / 2% Ag or 96% Sn / 3,5% Ag / 0,5% Cu



MECHANICAL DATA AND DESIGN

Cell size 156 mm x 156 mm +/-0.5 mm

Cell surface 243 cm² +/-3,12 cm²

Thickness 200µm +/- 20µm

Front (-) Alkaline textured surface with
SINx anti-reflective coating
3 bus bars in 1,55 mm width

Back (+) Aluminum with silver pads
3 bus bars in 2.6 mm width

STORAGE CONDITIONS

Maintain cells in controlled environment : temperature between 10-30°C and relative humidity below 70%. Store only in closed original packaging. Do not stack more than 4 cardboard boxes. Do not stack pallets. Handle with care and shock-free. Recommended maximum shelf life: 6 months after date of delivery.

PACKAGING

1 box 100 pcs

1 carton box 600 pcs

1 pallet 24 000 pcs

