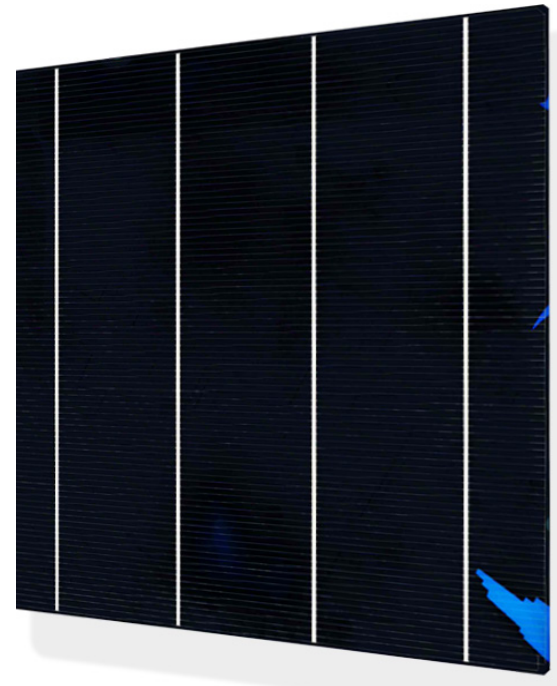


Photowatt® PWCELL6LM-GEN4.0

Crystal Advanced® silicon Solar Cell
CT7H

▶ HIGH QUALITY CELLS

PWCELL6LM-GEN4.0 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 reliable components on the market.



FRENCH SOLAR CELL
CRYSTAL ADVANCED®



100% Made in France

PWCELL6LM is a multicrystalline cell containing more than 95% mono crystals

19,6% - 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



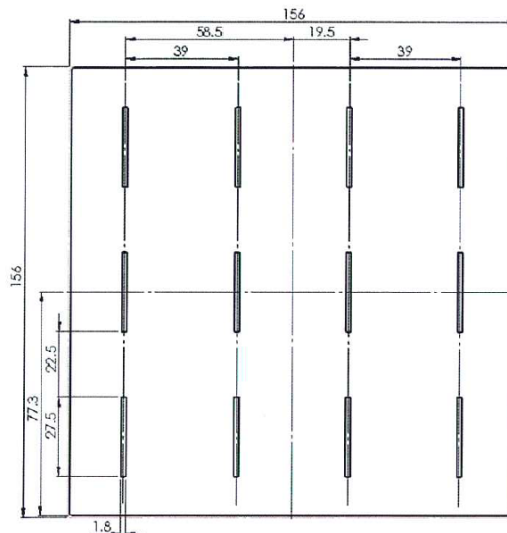
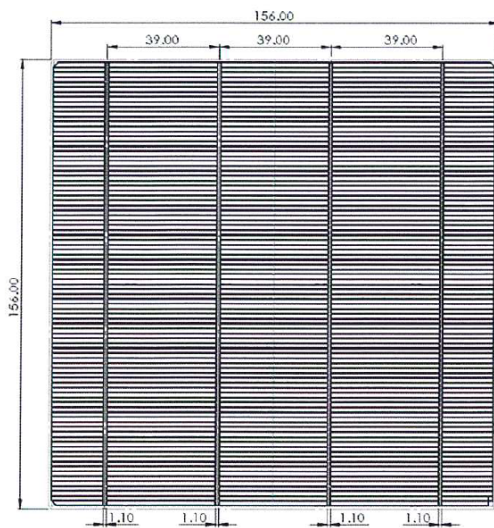
100% compliant with RoHS lead-free regulation



ELECTRICAL CHARACTERISTICS

Efficiency (%)	Power (Wp/Pc)	ISC (A)	Voc (mV)	FF (%)
17.8	4.33	8.99	616	78.8
18	4.38	9.03	617	79.0
18.2	4.43	9.07	621	79.2
18.4	4.48	9.11	624	79.2
18.6	4.53	9.15	627	79.3
18.8	4.58	9.18	631	79.4
19	4.62	9.23	634	79.6
19.2	4.67	9.25	637	79.8
19.4	4.72	9.27	639	80.1
19.6	4.76	9.29	641	80.2

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

Format 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
 4 bus bars in 1.10 mm width

Back (+) Aluminum with silver pads
 4 bus bars in 1.8 mm width

STORAGE CONDITIONS

Maintain cells in a 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 cells

1 carton box 600 cells

1 pallet 24 000 cells

