

SUPERIOR PERFORMANCE AND RELIABILITY





# SHINGLED TECHNOLOGY

Over 420Wp & Over 675Wp









# ADVANTAGES OF PUMA SHINGLED MODULES

#### **REDUCED RISK OF MICRO CRACKS**

The replacement of soldered ribbons with a low temperature and flexible ECA decreases thermal stresses during the modules production and operation, decreasing the risk of micro cracks formation.

Mechanical stresses (e.g. snow load) are relieved by the flexible interconnection, improving the reliability in harsh environments (as reflected in the increased warranty provided).

#### HIGHER CELLS DENSITY AND IMPROVED AESTHETICS

The inactive area is considerably reduced, no ribbons and cells gaps on strings improving the efficiency and aesthetic in full black modules.

#### LOWER RESISTIVE LOSSES AND THERMAL COEFFICIENT

The resistive losses in strings are considerably decreased thanks to the lower current of shingles (1/6 or 1/7 of the original cell) and the lack of interconnection ribbons in strings, improving at the same time the performance at high temperatures.



Higher yield per surface area



Higher yield in hot climate

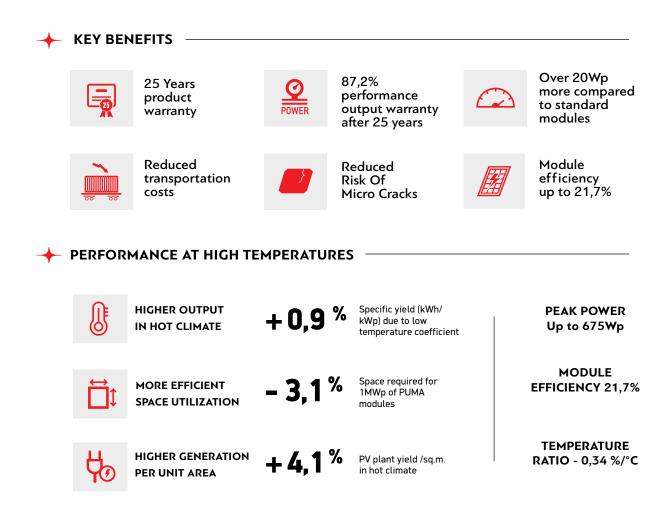


Low Pmax at - 0,34 % / °C





# MONO CRYSTALLINE SHINGLED MODULE



# SMALL SIZE FOR ROOF TOP INSTALLATION

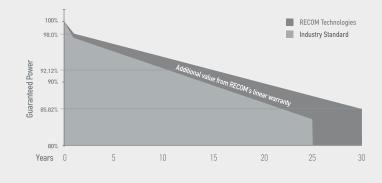
The PUMA module with power class over 555Wp, efficiency up to 21,6% and 25 years product & up to 30 years output warranty is:

• Best "Value for money" choice

• Ideal for rooftop installations (in the same size of the rooftop, more power can be installed compared to standard modules)

Low LCOE

**FOR COMMERCIAL & UTILITY INSTALLATIONS** The PUMA module with power class up to 675Wp, efficiency up to 21,7% and 25 years product & output warranty.



First Year 2-30 Year Section 2-30 Year Section Section

≤ 0.42% <sup>30 Year</sup> ≥ 85.82%



Great appearance BLENDS PERFECTLY WITH THE ROOFTOP



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WWW.RECOM-TECH.COM



#### USA

580 California Street, 12th & 16th Floors San Francisco, California CA 94104 E: info@recom-tech.com T: +1 (415) 568 2112

## SINGAPORE

Level 39, Tower 2 Marina Bay Financial Centre 10 Marina Boulevard 018983 Singapore E: info@recom-tech.com T: +65 68186030

#### GERMANY

Speditionstraße 21 Düsseldorf, 40221 Germany E: info@recom-tech.com T: +49 211 88231669

### GREECE

1 Poseidonos Str. 17342, Ag. Dimitrios Athens Greece E: info@recom-tech.com T: +30 2182189858

#### FRANCE

4 Avenue Pierre Marzin 22300 Lannion France contact@recom-sillia.com T: +33 0296058050

### **CYPRUS**

1 Avlonos Street, Maria House, 4th Floor, Office No.7, 1075 Nicosia, Cyprus T: +357 22 767543 E: info@recom-tech.com

#### ITALY

Via dell' Artigianato, Z. I., Vanzo di San Pietro Viminario, PD 35020 Italy E: info@recom-tech.com

### U.A.E.

Office 801, Twin Towers, Baniyas Street, Dubai, United Arab Emirates. P.O.Box 41423, T:+971(4)2678443 E: Info@Recom-Tech.AE