



More than lightweight

# HELIUP Stykon "Stick on Membrane" Preliminary Product Datasheet



**Application:** HELIUP Stykon photovoltaic modules are designed for low-tilt waterproofing membrane roofs. The product is to be directly glued onto the new membrane during roof-repair. Its lifetime expectancy is matching that of most roof membranes making it the perfect tool to harvest energy from the sun.



LIGHTWEIGHT

**Lightweight <math>< 5 \text{ kg/m}^2</math>** more **50%** less than conventional PV modules



DURABLE

**Glass protection for high durability and robustness** against humidity and hail



EASY TO INSTALL

**Fast and easy installation** by directly gluing on water proofing membrane



POWER EFFICIENCY

**High energy yield** thanks to the use of reference Silicon solar cells technology



CO<sub>2</sub> FOOTPRINT

**Lower carbone footprint** due to less material usage and transportation avoidance



COMPETITIVE

**Competitive solution** for production of renewable electricity



CERTIFICATION

**Double certifications** PV IEC 61215/61730 and building standards accreditations



MADE IN FR

Designed and manufactured in **France**



HELIUP

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## Electrical Characteristics (STC\*)

Type	Stykon 4X18M6P205	Stykon 4X18M6P210	Stykon 4X18M6P215
Power Range ( $P_{max}$ )	205 Wc	210 Wc	215 Wc
Maximum Power Voltage ( $V_{mp}$ )	20,6 V	20,8 V	20,9 V
Maximum Power Current ( $I_{mp}$ )	9,93 A	10,13 A	10,28 A
Open-circuit Voltage ( $V_{oc}$ )	24,7 V	24,7 V	24,8 V
Short-circuit Current ( $I_{sc}$ )	10,31 A	10,64 A	10,77 A
Operating Temperature (°C)	-40°C to 85°C		
Maximum System Voltage	1000 V DC (IEC)		
Maximum reverse Current	15 A		
Application Class	Class A		
Power Tolerance	0/+5%		

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM1.5G.

## Mechanical Characteristics

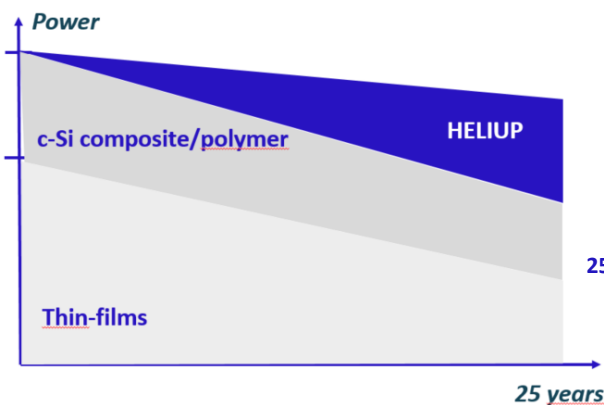
Solar cell	M6-9bb monocrystalline p-type
Number of cells	4 x 18
Module dimensions	1624 x 739 x 3 mm
Weight	5,7 kg
Frontsheet	Patented combination of polymer films and thin glass
Encapsulation	Thermoplastic polymer
Backsheet	Non fluorinated
Junction boxes and connectors	IP-68, Stäubli (MC4), 2 by-pass diodes
Output cables	2 x 4 mm <sup>2</sup> ; length 500 mm +/- 10 mm

## Temperature Characteristics

Normal Operating Cell Temperature	45°C
Temperature Coefficient of $I_{sc}$	0,07 %/°C
Temperature Coefficient of $V_{oc}$	-0,36 %/°C
Temperature Coefficient of $P_{max}$	-0,38 %/°C

## Certifications and tests

Certifications	IEC 61215/61730 (in progress)
Building standards	ETN and ATEX in progress
Quality Management	ISO 9001



**\*10 Years Product Warranty**  
**25 Years Linear Power Output Warranty**

*1st year degradation less than 2%*  
*85% guaranteed after 25 years*

