

ROBOT CLEANER
OF PHOTOVOLTAIC,
SOLARS PANELS
AND GLASS ROOFS

Opti+

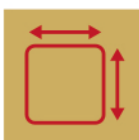


Opti+ preserves up to 15% the performance of your solar panels



PV Cleaning Robot

Opti+ is a remote controlled robot designed to clean solar installations on roof tops



High speed cleaning 400m²/h

Opti+ operates at a speed of 30m/min .

www.robot-optiplus.fr

Optimize your electricity production

Your Q&A

Should we clean the solar panels?

Yes, indeed. Solar panels need a regular maintenance in order to keep their optimal performances.

Sand, dust and pollution accumulate on their surfaces, altering their production efficiency and at the same time reducing their life-span.

Rain is not enough to clean the solar panels, actually it even tends to hoard the dirt already there.

Our robot can use a wet or dry cleaning system depending on the weather conditions. The performances of a regularly maintained panel will not decrease each year.

How long does the cleaning take?

Our robot advances at a speed of 30 m/min, which allows it to clean up to 400 m² per hour in 2 passes (outward and return).

Can it be used on all roofs?

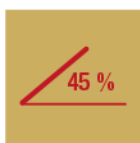
The slope limit is 45% depending on model, which represents the majority of current roofs.

What are the operating costs?

Opti+ has a very low running cost, you just need to recharge your battery. The water consumption is 0,2 to 0,6 l/m², much less than the conventional high pressure cleaning.

Is it safe?

Of course it is. The brushes are specifically designed for this purpose, operators will not have to work on roofs anymore, comfortably controlling the robot from an elevating platform. The pressure applied by the **Opti+** robot is 60 g/cm², thanks to its optimized weight.



Slopes up to 45%

The rubber tracks allow the robot to go up and down steep slopes.



Autonomy up to 8 hours ^(*)

Opti+ robot included two easy interchangeable batteries.

| Specifications | OPTI+ ⁵ | OPTI+ ^{5P} |
|--|---------------------------|---------------------|
| Overall dimensions (L x l x h) mm | 1200 x 1500 x 430 | 900 x 1400 x 400 |
| Weight | 74kg | 53kg |
| Brushes dia Ø180mm | Lg : 1100mm | Lg : 850mm |
| Irrigation system | 6 nozzles | 4 nozzles |
| Slopes | up to 40% | up to 45% |
| Water consumption | 0,2 à 0,6l/m ² | |
| Remote controled | yes | |
| Quick removal of brushes without tools | yes | |
| Dry cleaning with specially-designed brushes | yes | |

(*) According to geographic location

Standards and guarantees

In accordance with the French legislation, the **Opti+** robot is guaranteed for one year, excl. travel and transport costs.(see General & Special Conditions of Sale).



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