



## Single cell LED

Dutch company Newvisibility International has introduced a new single solar cell LED light for use on piers and pontoons. The product is claimed to improve the effectiveness of small solar cell products by up to 300% in comparison with conventional techniques under normal Western European daylight conditions.

According to Newvisibility managing director, Bart Schinkel, conventional solar cells – such as those sold in DIY stores for garden lighting – contain serially switched cells which together have enough output to charge

a battery. Only when all the parts contribute and if the sum of their efforts is enough, will the battery be charged.

A big problem with the professional application of this technique is 'partial shading'.

Leaves, sand or dirt can cover up one or more solar cell segments. This results in a total output which is too low to charge the battery. The same will happen on a cloudy day when there is too little light to charge the battery, which will consequently be empty after a few days.

Newvisibility's solution is to use a single solar cell with a patented converter that ensures even small currents are transformed into energy for the battery. The battery charges irrespective of the light conditions.

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