Solar pond pump sets

Running attractive water features on solar energy

For years there has been a consistently strong trend towards renewable energies, and this development is now influencing pond- and pump technology too. The new solar pond pumps from T.I.P. make it possible to run attractive, eco-friendly water features without breaking the bank.

Water features and fountains are among the most popular decorative elements for varying the appearance and lending a strong note of individuality to a garden pond. Pumps used for this purpose are in operation for long periods over the pond season, for which they need a continuous energy supply. When this is in the form of electricity from the mains socket, the resulting energy costs can mount up sharply. Especially in periods of high energy prices, solar pond pumps offer a genuine alternative that keeps electricity costs consistently low. Another advantage is that they enable the operation of water features remote from any mains power connection – for example in weekend cottage pond landscapes or gardens a long way out of town.

Solar pond pumps -energy at zero cost

T.I.P. solar pond pumps will allow you to run impactful fountains with heights up to 180 cm, depending on the model. No connection to the commercial mains is required, as these appliances can run entirely on solar energy. This independent energy supply does more than just significantly reduce electricity bills. Harnessing renewable energies also actively contributes to protecting the environment.

The key to independent energy supply from solar pond pumps is the solar collector. These high-precision solar panels supply the pumps with sufficient energy to deliver the flow rate needed for water features and build up the required pressure.
The solar panel is usually positioned together with the weatherproof control housing right by the pond, which ensures convenient pump operation and monitoring of all functions. The high-quality, compact design of these appliances does not spoil the view of the pond landscape. Where necessary however, the five-metre-long connection cable gives you the option of installing the panel at some distance from the pond.

Positioning the two appliances near small bushes, shrubs or other plants puts them in the background; however it is important in all cases to ensure that the solar panel faces the sun as much as possible and is not in shadow.

Battery operation - for energy supply in bad weather

Even when the skies are cloudy, the solar panel generates enough energy to run the pump or a water feature without any problem. However the weather does place limits on solar energy generation. Sunlight is not converted to energy during very bad weather (or in darkness). For this situation, solar pond pumps are equipped with a powerful battery. This charges automatically by storing surplus energy during normal solar-powered operation. Fully charged, the battery is capable of supplying energy for two to four hours, depending on the model.

LED lighting for ambience in the evenings

All T.I.P. solar pond pumps are also equipped with attractive LED lighting as standard. During the evening hours a stylishly illuminated water feature can create an extra-special atmosphere in the garden. Even the energy required for this harmonious interplay of moving water and light is available in full, as the powerful battery keeps both the pump and the lighting supplied.

In periods of high energy prices, when creating water features in areas remote from any mains connection, and not least for ecological reasons, T.I.P. solar pond pumps provide a real alternative to pumps run from mains sockets.

Choosing the right solar pond pump

Our carefully put-together range of solar pond pumps enables us to offer you the right product for every purpose. The T.I.P. guide will help you find exactly the right pump for your requirements.

Our SPS series includes solar pond pumps with a range of performance levels tailored to the creation of small, medium or large water features. The product line-up is rounded off by a special model that floats on the water surface.

SPS 250/6 - our starter model for small water features

The SPS 250/6 solar pond pump is ideal for driving small fountains and water features. With a maximum flow rate of 250 litres per hour and maximum pressure of 0.12 bar, it can accommodate small water features up 60 centimetres in height. This ideal starter model features a 6 volt, 4 Ah lead battery allowing 4 hours of operation when fully charged.

SPS 800/12 for creating medium-sized water features With a maximum flow rate of 800 litres per hour and maximum pressure of 0.2 bar, the SPS 800/12 solar pond pump is recommended for the creation of impactful water features with fountains up to 130 centimetres high. Fully charged, the battery can keep even the more high-powered models in this series running for 4 hours even though these types have rather higher voltage (12 V).

Additionally, this model boasts a practical timer function. When the timer is activated, the pump and LED lighting shut down after two hours of battery operation, thus limiting energy consumption.

Complete standard accessories for immediate use

Our SPS series models are conveniently supplied as complete sets. Along with the pump, solar panel with ground spike for installation, battery, and control housing to operate the product, items supplied as standard include all the cables needed, riser segments, a variety of water feature nozzles and LED lighting. No other parts are needed for the immediate connection and creation of a wide variety of water features that – with a perfectly positioned light source – will delight you in the evenings too.

Carefully graded capacities of the SPS series

Careful grading of capacities within the SPS series makes it easy to find the right model for your requirements and specific conditions.

Main technical information for comparison:

SPS series	**SPS 250/6**	**SPS 800/12**
Motor pump	3 watts	8 watts
Max. fountain height	60 cm	130 cm
Max. flow rate	250 l/h	800 l/h
Max. pressure	0.12 bar	0.20 bar
Battery	6 V / 4 Ah	12 V / 4 Ah
Max. battery operation	4 hours	4 hours
Solar panels	1	1

Limitations of solar pond pumps

Solar pond pumps have proven themselves an appealing alternative for creating water features, by harnessing renewable energy to keep costs down while at the same time protecting the environment. Problem-free operation and relatively high flow rates enable the creation of impactful and attractive water features. However, if higher flow rates are needed – for example to connect a second water feature or a spitter statue in parallel – the use of higher-capacity water feature- or stream pumps is recommended.

High-quality materials and no compromise on the technology: the keys to the high quality of our solar pond pumps.

- Energy supply via high-quality solar panels.
- High-powered batteries for operation in bad weather and darkness.
- Complete with an extensive range of accessories for creating water features with plenty of variety.
- Attractive LED lighting for the evenings.

T.I.P. solar pond pumps are not suitable for pumping salt water or flammable, corrosive, explosive or other hazardous liquids.