

## SolarSpring PRO 3000

is a compact and innovative water treatment plant. It guarantees a reliable and safe water supply from dirty and microbiological contaminated water sources without using chemicals. Automatic operation, low maintenance and easy plug & play setup are the features of this system.



Specification – SolarSpring PRO 3000	
Application	Water purification from turbid and microbiological contaminated water
Raw water source	Rivers, lakes, wells, boreholes and contaminated tap water
Water quality	Up to 99.999 % retention of microorganisms, bacteria and viruses
Nominal flow capacity	3,000 l/h (3,000 - 6,000 l/h possible)
Supply capacity	Up to 72 (max. 144) m <sup>3</sup> /day
Filtration yield	99%
Power consumption	500 W
Dimensions	1400 x 500 x 1800 mm (WxDxH)
Weight	215 kg
Housing	Powder coated metal enclosure (lockable)
IP degree of protection	IP55
Pre-treatment	Disk filter 100 µm (2") with automatic back flush system
Main-treatment	High quality UF-module with robust multi-bore membrane 60 m <sup>2</sup> / 0.02µm and automatic back flush system
Post-treatment	UV disinfection (36W) 2x 20" big activated carbon filter
Operation	Automatic PLC controlled operation with display and data logger
Power source	Solar (48 VDC) or grid (100-240 VAC 50/60Hz)
Ambient temperature	0-50°C
Water temperature	2-40°C
Feed turbidity	Standard membrane <50 NTU / max. 100 NTU (short term peaks) Heavy membrane <200 NTU / max. 400 NTU (short term peaks)
Filtration pressure	0.1 – 1.5 bar
System pressure	1.0 – 2.5 bar
Backwash pressure	3.0 bar
Energy demand	0.2 kWh/m <sup>3</sup>
Feed pump flow range	2,000 -2,500 l/h (PWM controlled)
Max. feed pump pressure	4 bar
Max. system pressure	6 bar
Optional accessories	<ul style="list-style-type: none"> <li>• Submersible feed pump 30-300 V DC/AC (up to 120m)</li> <li>• Sand filter with automatic valves for back flush</li> <li>• Remote control system (3G) with alarm manager via SMS and email</li> <li>• Solar package including: <ul style="list-style-type: none"> <li>• Solar panels 1,800 Wp, 48V</li> <li>• Solar charge controller 50A, 48V</li> <li>• High cycle AGM battery 150Ah, 48 V, 2500 cycles @ 50% discharge</li> </ul> </li> <li>• Drinking water storage (different sizes - hard layer or flexible pillow type)</li> <li>• Anodic oxidation system (electro-chlorination) for post-treatment</li> <li>• Service cleaning package (CIP)</li> </ul>