



TURBINES **NANOTURBINE**

Features

- · Installation in parallel with pressure reducing valves (PRVs) or in any point of the water network with a pressure drop available.
- · Designed for 12V lead-acid battery charging (up to 45 Amp-hour of capacity)
- · Up to 20W of output power (equivalent to 1,5 amps of battery charge current)
- · Rated flow 0.8 liters/second and 2 bar of pressure drop.
- · Inlet and outlet threated connection 1/2" diameter.
- · Manufactured in high resistance polyamide plastic.
- · Maximum pressure 10bar.
- · Compatible with drinking or irrigation water.
- · 100% water proof (IP68)
- · High eficiency three-phase permanent magnet generator.
- · IP66 control box with battery charge controller (dimensions 330x250x150mm)
- · Solenoid valve for automatic open/close depending on the battery state of charge.
- · 24V output with a 12-24 VDC converter (optional)

Advantages

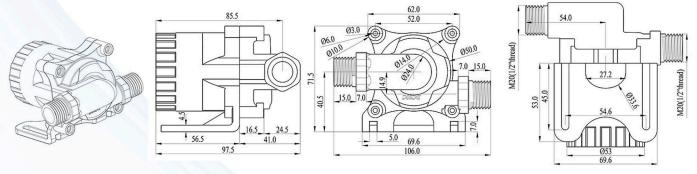
- The perfect solution for energy supply in small monitoring equipment like dataloggers, flow meters, pressure sensors, etc.
- · Easy installation in parallel with a pressure reducing valve.
- · Maintenance free and high life span.
- · Automatic solenoid valve includded: the turbine only works when the battery has to be charged.
- · Very low noise level (40dB)
- · Hidden installation in the same chamber than the pressure reducing valve.
- · Daily energy production equivalent to a 120W solar panel.



NANOTURBINE

CONSTRUCTIVE DETAILS

- 1. Fixing screws
- 2. Shell
- 3. Foundation
- 4. Impeller
- 5. Sealing ring
- 6. Ceramic Shaft
- 7. Generator body
- 8. Isolation layer
- 9. Stator Coil
- 10. Shell





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OPERATING CURVES

