ennos sunlight pump datasheet

General Information of the 0.5HP sunlight pump

- Solar water pump with integrated controller for easy plug and pump up to 25 m3 water per day
- Maximum Power Point Tracking and variable speed operation for maximum water output at any time of the day
- 0.5 HP (500W PV Modules) Brushless DC Motor for maintenance free operation and high efficiency over wide flow and pressure range
- ✓ Progressive Cavity Displacement Pump for versatility and simplicity
- ✓ LED Display for fast information about operation, trouble shooting and actual flow rate



- Running dry protection and tank overflow sensor for an automated and simple operation of the pump system
- ✓ Pumping capacity of 60m vertically and up to 7000m horizontally 2 years warranty up to 40m head only with online registration & app connection

| Total Dynamic Head (TDH) ¹ | 60 | m |
|---|------------------------------|-------|
| Suction capacity at sea level (vertical meters) ² | 7 | m |
| Maximum water flow rate | 48 | l/min |
| Range of maximum power point voltage $(V_{MPP})^{3,4}$ | 15-52 | V |
| Range of open circuit voltage (V _{OC}) ⁵ | 17-65 | V |
| Maximum Input current @ 25°C | 9.5 | А |
| Maximum Input power | 500 | W |
| Temperature operation of pump | 0 - +50 | °C |
| Temperature storage ⁶ | -30 - +55 | °C |
| Pump dimensions | L 595 x H 290 x W 240 | mm |
| Pump weight | 14 | kg |
| Inlet | Foot valve with strainer | |
| Type of enclosure | IP65 | |

Technical specifications Model: JSPBL0.3/HF2.4-5

- 1 2-year warranty up to 40m Total Dynamic Head. At more than 15m TDH, it is strongly recommended to use a non-return (check) valve at the outlet in order to protect the pump from excessive back pressure.
- 2 Suction capacity at sea level. Subtract 1m for every 1000m altitude.
- 3 PV modules at standard test condition: AM = 1.5, E = 1,000 W/m2, cell temperature: 25 °C
- 4 CAUTION: If the connected solar module supplies an open circuit voltage of more than 65V, the controller will be damaged. While selecting the solar PV module, it is important to keep in mind that the open circuit voltage should never exceed 65V over the entire working temperature range.
- 5 PV modules at standard test condition: AM = 1.5, E = 1,000 W/m2, cell temperature: 0 °C
- 6 Pump must be empty if stored at temperatures below 0°C





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sunlight pump performance chart



Curves in Graphic are mean values. Input power is measured at the pump, not the solar panels

Battery mode with Valve Regulated Lead Acid (VRLA) battery

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Nominal voltage*
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12 / 24 / 36 / 48 V

* The use of the sunlight pump in battery mode requires an external charge controller to avoid deep discharging of batteries by the pump and to control the charging through the solar panels

Further Information

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sunlight pump powered by battery

Battery mode with Valve Regulated Lead Acid (VRLA) battery

Nominal voltage*

12 / 24 / 36 / 48 V

* The use of the sunlight pump in battery mode requires an external charge controller to avoid deep discharging of batteries by the pump and to control the charging through the solar panels

sunlight pump: example of battery mode in use with solar panels

