



DAYLIFF SUNFLO series submersible pumps are designed for reliable small-scale water supply from boreholes and wells and are the ideal solution for remote pumping requirements in livestock watering, irrigation and general water supply applications. They are of positive displacement three-chamber diaphragm design and can run dry without damage. An internal bypass is also incorporated to prevent pump damage in the event of delivery cut-off.

Pump components are manufactured from high quality engineering plastics with santoprene used for the diaphragm and EPDM for the valves. Pump casings are plastic for 150 and stainless steel for 300 and a 50-mesh stainless steel screen is also incorporated.

Pumps can be installed either with a direct connection to the PV module or through a charge controller that is connected to a battery for 24hr operation.

Power Outputs

Pump output curves are given at standard test conditions of 1000W/m² solar irradiance and 25°C. Output will vary throughout the year depending upon prevailing irradiation levels. For estimated daily outputs at continuous pumping multiply the indicated output at the duty point by the daily irradiation given in Graph 1. For indicative purposes factors of 1.1 can be applied for hot arid areas and 0.9 for temperate high altitude areas in East Africa. Output will vary throughout the day as a proportion of the estimated hourly irradiation as shown in Graph 2.

Motor

The pump motor is of permanent magnet type for 24V DC power input from either a direct source or photovoltaic modules. Internal thermal protection is also provided.

Operating Conditions

- Pumped Liquid:** Thin, clean, chemically non-aggressive liquids without solid particles.
- Max. Liquid Temperature:** +77°C
- Ambient Temperature:** -40°C-+60°C
- Max. Immersion Depth:** 30m
- Internal by-pass Pressure:** 7.5bar

Model	Power (W)	Input Power (W)	Voltage (VDC)	Current (A)	Outlet (")	Height L (mm)	Weight (kgs)
SUNFLO 150	120	150	24	4	½	329	2.7
SUNFLO 300	300	375	24	5	¾	335	3

