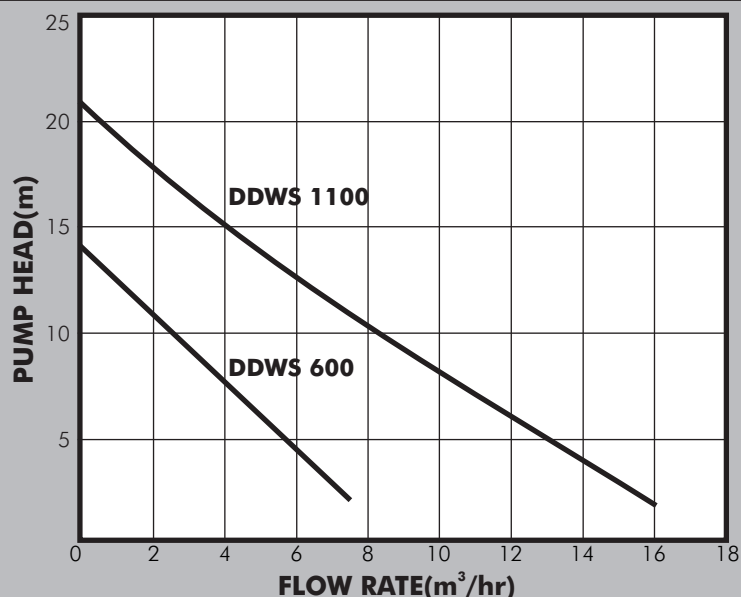




DDWS

Submersible Centrifugal Pumps



PUMP

DAYLIFF DDWS is a PV solar powered submersible closed impeller DC centrifugal pump for well pumping and drainage of clean water containing minimal impurities for domestic and small scale water supply applications. Material of construction is cast aluminium pump body and impeller, silicon carbide (SiC) mechanical seal and AISI301 stainless steel strainer (DDWS 1100). Pumps are supplied with 5m water proof power cable.

MOTOR

The pumps are coupled to high efficiency permanent magnet brushless motors suitable for continuous duty. The DDWS 1100 feature an AC/DC powered motor. For optimal performance it is recommended to size the PV solar module array with a nominal output about 50% greater than the specified motor size and ensure that the input voltage is between the specified limits.

PUMP CONTROLLER

DDWS 600 feature an inbuilt controller that provides thermal protection, over/under voltage, over temperature, reverse polarity and dry run protection.

DDWS 1100 includes an Intelligent MPPT (Maximum Power Point Tracking) controller providing advanced pump functionality with seamless power source management. Key features include.

- Fully automatic operation and complete protection including low and high voltage, over current, over temperature, reverse polarity and dry run.
- Intelligent power source selection either DC solar, AC mains, or Auto mode, prioritizing DC solar power for optimal energy efficiency and automatic switching to AC mains when the DC solar power is insufficient or unavailable ensuring continuous operation.
- LED Display providing real-time data on voltage, current, power, rotational speed and error codes for easy monitoring and troubleshooting.
- Soft start operation to enhance the longevity of the motor and pump

Enclosure Class: Pump - IP68
Controller - IP65

Insulation Class: F

Max Controller Current: 18A

Speed: 3000rpm

OPERATING CONDITIONS

Pumped liquids: Thin, chemically non-aggressive liquids without solids or fibres.

Max. Ambient Temperature: +35°C

Max. Liquid Size: +40°C

Model	Motor Power (W)	MPPT Voltage (V)	Input Voltage (V)		Open Circuit Voltage (VOC)	PV Configuration	Outlet (")	Dimensions (mm)		Weight (kg)
			DC	AC, 1ph				W	H	
DDWS 600	0.6	60-90	30-110		<110	2x545W	2	235	347	12
DDWS 1100	1.1	150-350	80-430	80-280	<430	5x350W	3	220	300	16

