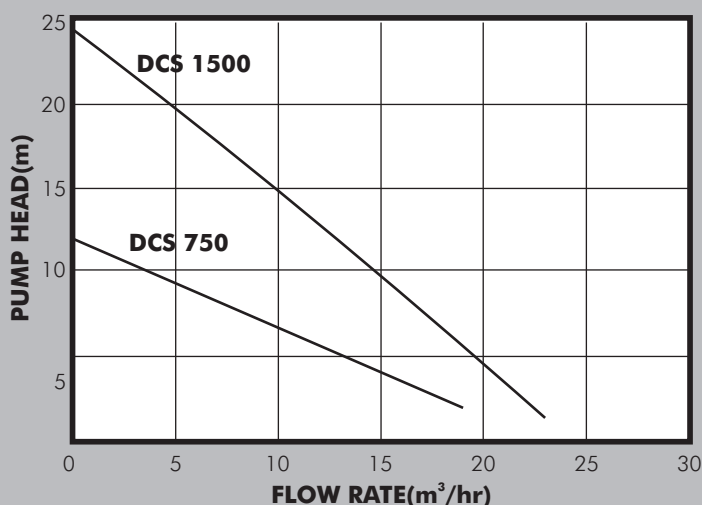




DCS Surface Irrigation Pumps



PUMP

The Dayliff DCS range of self priming solar pumps are of fully portable design suitable for irrigation, dewatering and general pumping duties. Models feature open impeller suitable for pumping lightly silted water and are supplied with 2m waterproof power cable, MC4 connectors, float sensors, quick coupling hose connectors and suction strainers. Material of construction are cast aluminium for the pump body, cast iron for the impeller and the unit is mounted on a sturdy carrying frame.

MOTOR

The pumps are coupled to high efficiency permanent magnet brushless motors suitable for continuous duty. The DCS 1500 features 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

DCS 750 feature an inbuilt controller that provides thermal protection, over/under voltage, over current, over temperature, reverse polarity and dry run protection.

DCS 1500 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- IPX4

Insulation Class: F

Max Controller Current: 18A

Speed: 3000rpm

Controller -IP65

OPERATING CONDITIONS

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

Max. Ambient Temperature: +35°C

Max. Liquid Temperature: +40°C

Max. Suction Lift: 6m

PUMP DATA

Model	Motor Power (W)	MPPT Voltage (V)	Input Voltage (V)		Open Circuit Voltage (VOC)	PV Configuration	Inlet/Outlet (")	Dimensions (mm)			Weight (kg)
			DC	AC, 1ph				L	W	H	
DCS 750	0.75	90-120	50-170		<170	3x350W	2	395	240	340	17
DCS 1500	1.5	180-350	80-430	80-280	<430	5x545W					18

