

## **1100W SUBMERSIBLE SOLAR WATER PUMPS**

1100W solar water pump with DC controller, 110V working voltage, 1004~1585 gph max. flow, 84~123m max.head.

### **Specifications:**

<b>Basics</b>	SKU	ATO-SWP-110V1100			
	Shipping weight	15kg			
	Cable length	2m			
	Package included	1 * Solar water pump 1 * DC controller 1 * Stainless steel float switch (water level sensor for the tank) 1 * Pump outlet joint connector 1 * Splice kit for cable join 1 * Splice kit for waterproof 1 * User manual			
	Warranty	2 years			
<b>Solar water pump features</b>	Power	1100W			
	Voltage	110V DC			
	Max. flow *	3.8m <sup>3</sup> /h (1004 gph, American system)	4.0m <sup>3</sup> /h (1057 gph, American system)	6.0m <sup>3</sup> /h (1585 gph, American system)	5.0m <sup>3</sup> /h (1321 gph, American system)
	Max. head *	123m (400ft)	130m (425ft)	84m (275ft)	101m (330ft)
	Length	80cm	80cm	60cm	60cm
	Inlet diameter	3 inch	3 inch	4 inch	4 inch
	Outlet diameter	1.25 inch	1.25 inch	1.25 inch	1.25 inch
	Impeller structure	Single-suction plastic impeller	Single-suction stainless steel impeller	Single-suction plastic impeller	Single-suction stainless steel impeller
	Material of outlet/connector/oil cylinder	Brass	Stainless steel	Brass	Stainless steel or brass

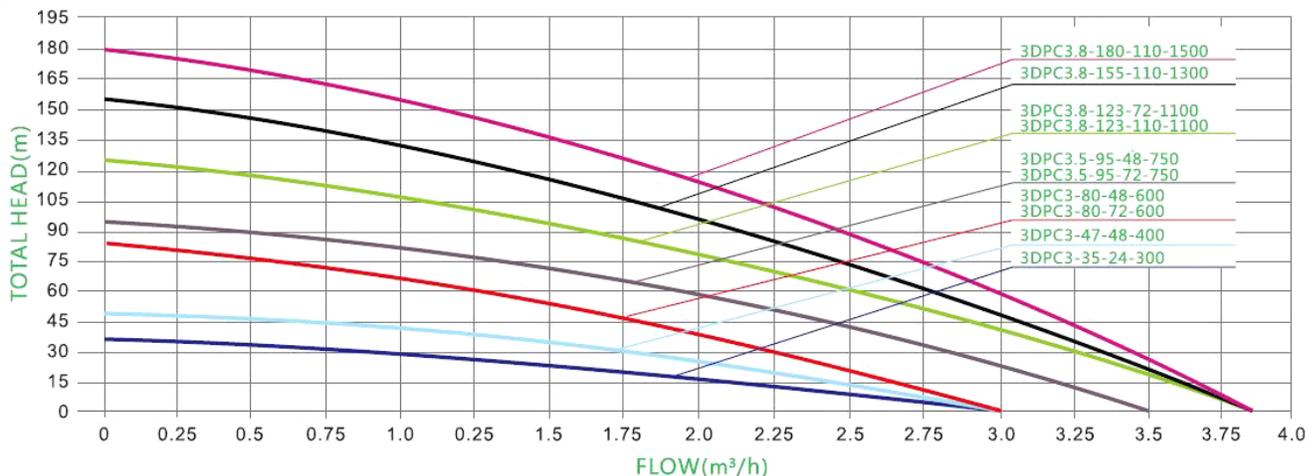
	Model	3DPC3.8-123-110-1100	3DSC4.8-110-110-1100	4DPC6-84-110-1100	4DSC5-101-110-1100
	Internal motor	Brushless DC motor			
	Speed	4000rpm			
	Material of shaft	304 stainless steel			
	No water protection function	The water pump stops working automatically when there is no water in the well, and it will automatically restart working 30 minutes later.			
	Required open circuit voltage (VOC) of solar panel	<200V DC			
	Required power of solar panel	≥1.3*pump power			
	Efficiency	45%			
<b>Controller features</b>	Model	DF-110			
	Best MPPT voltage range	110-150V DC			
	Max. input current	15A			
	Working temperature	-15~+60°C (5~140°F)			
	Display	LED display can show power, voltage, current and speed value.			
	Functions	Automatic charging (for battery) Variable frequency Automatic power ON/OFF Soft start High voltage/low voltage/over-current/high temperature protection			
	Protection class	IP65			

**1100W 110V DC solar water pump performance curves:**

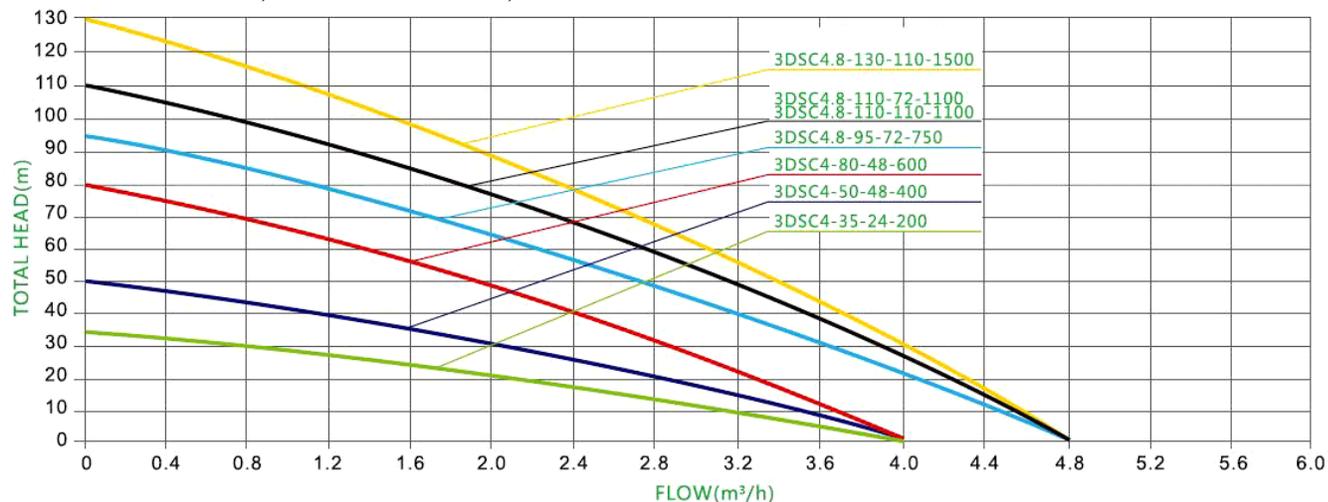
Max. Flow: 3.8m<sup>3</sup>/h, Max. Head: 123m, Model: 3DPC3.8-123-110-1100



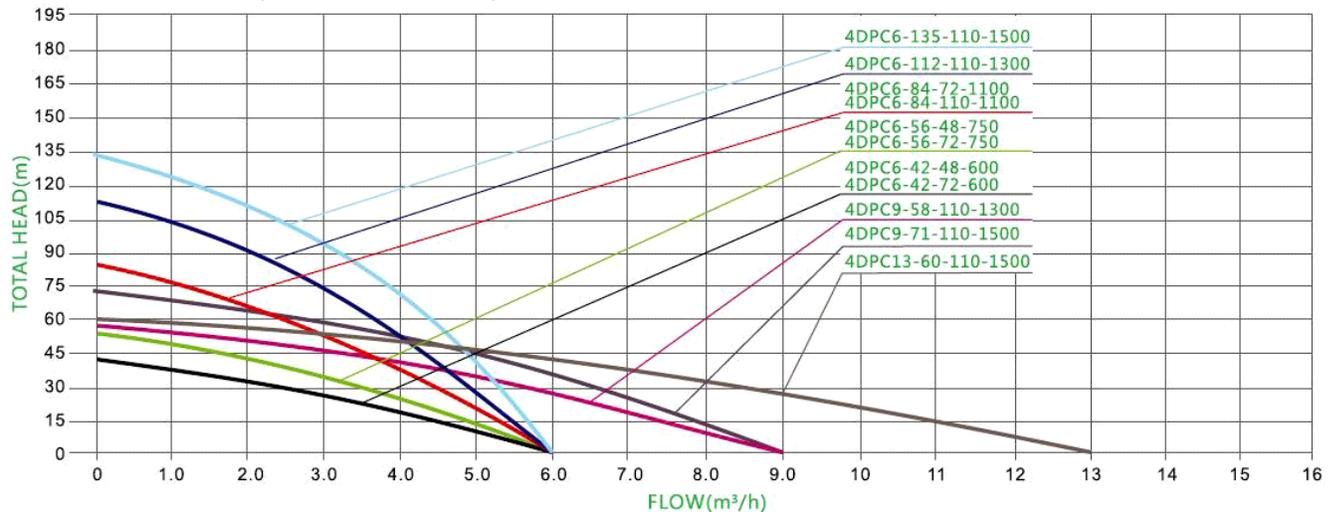
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Max. Flow: 4.8m<sup>3</sup>/h, Max. Head: 110m, Model: 3DSC4.8-110-110-1100



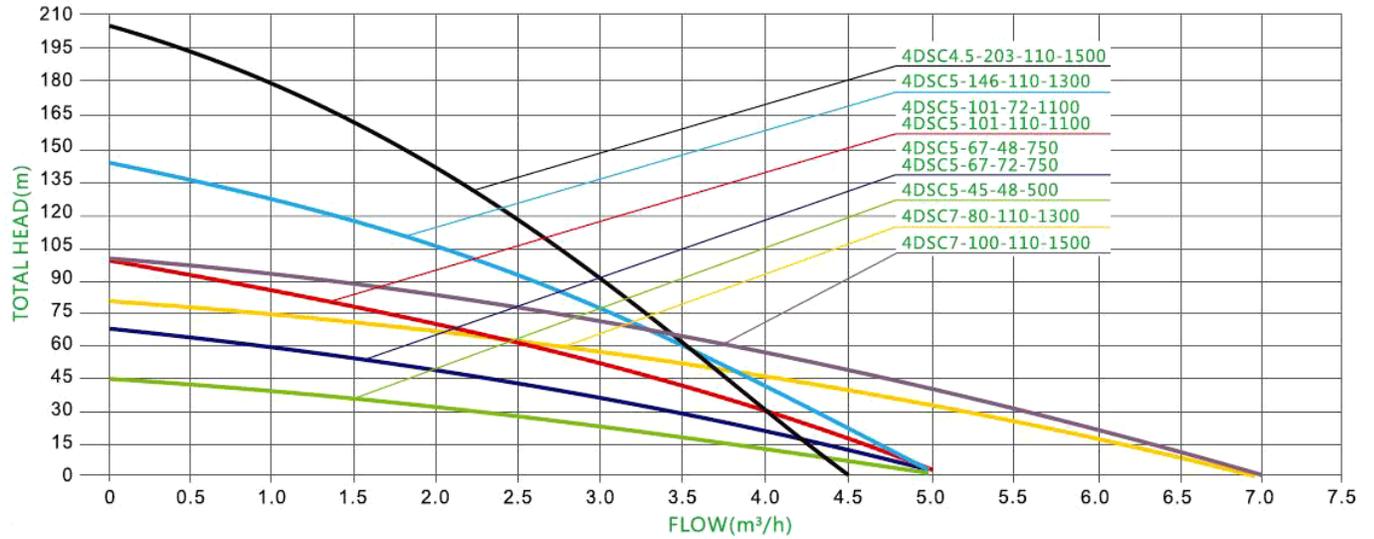
Max. Flow: 6.0m<sup>3</sup>/h, Max. Head: 84m, Model: 4DPC6-84-110-1100



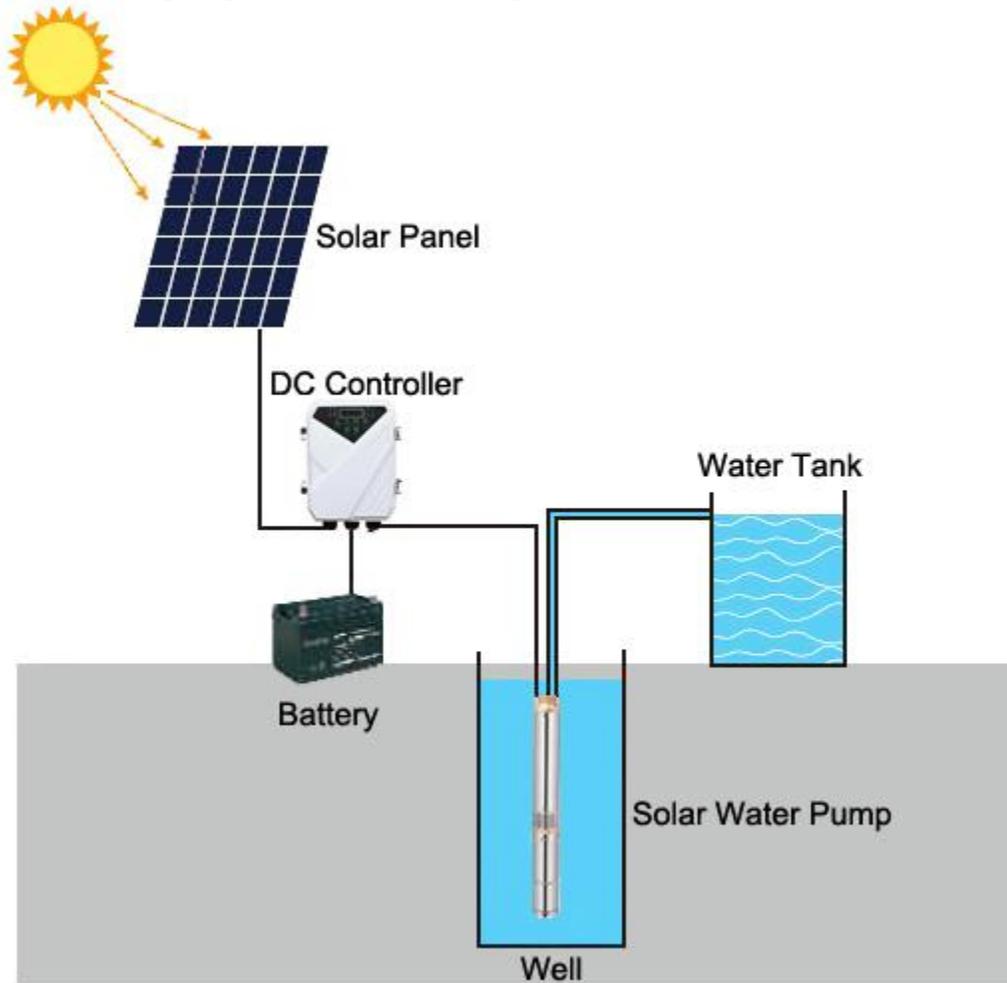
Max. Flow: 5.0m<sup>3</sup>/h, Max. Head: 101m, Model: 4DSC5-101-110-1100



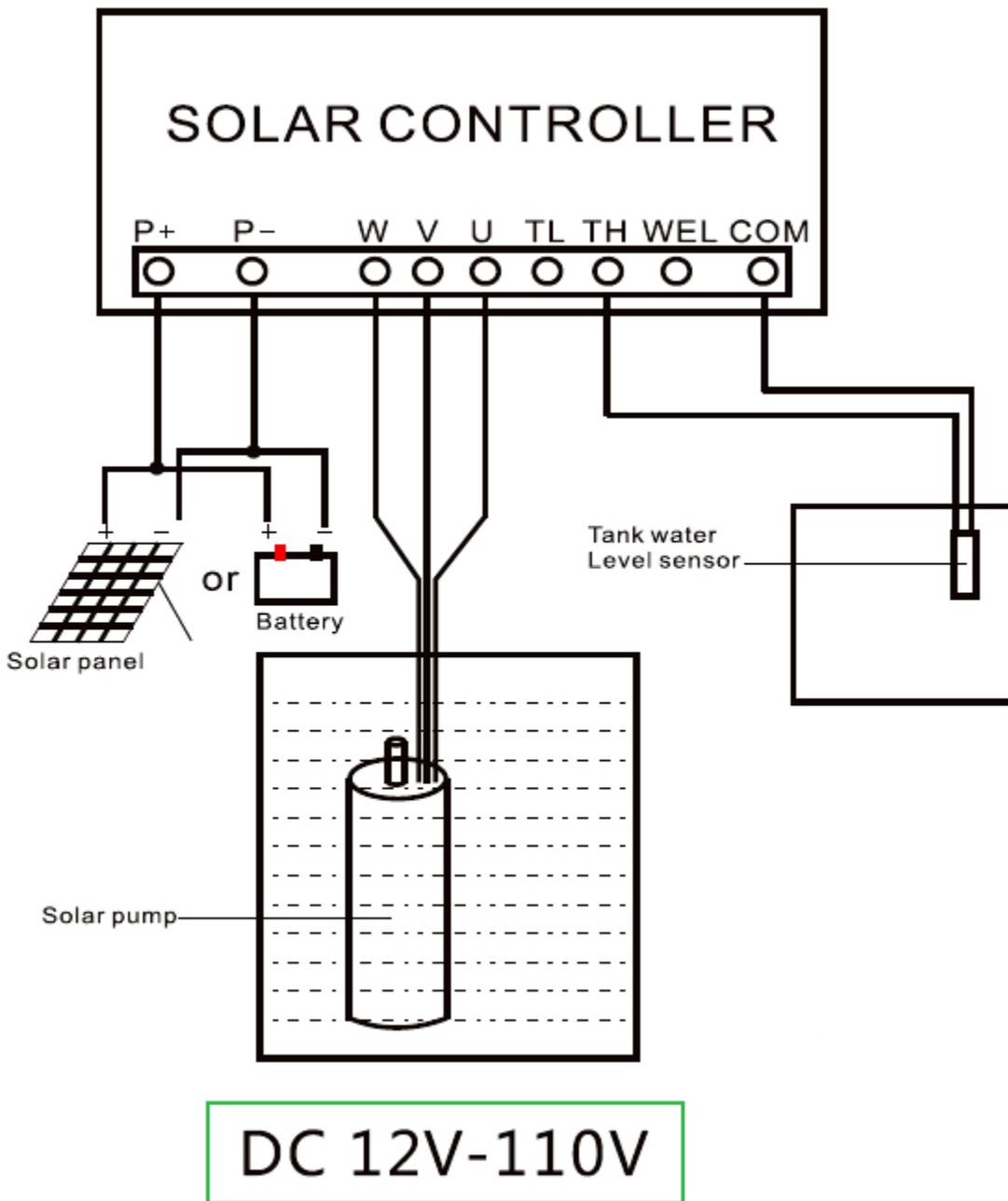
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### Solar water pump installation drawing:



### Solar water pump wiring diagram:



### Tips: Why the solar water pumping system will be the best choice for irrigation?

The solar water pumping system is mainly composed of PV panels, a PV water pump inverter and a water pump. The solar water pumping system utilizes the long-lasting energy from the sun, works at sunrise, and rests at sunset. It doesn't require personnel to take care of it, doesn't require diesel, doesn't require a power grid, and can be used with irrigation facilities such as drip irrigation, sprinkler irrigation, and infiltrating irrigation. Significantly saving the water and energy power, reduce the input cost.

Advantages of solar water pumping system:

1. Reliable: Photovoltaic power supplies rarely use moving parts and can work reliably.
2. Safe, no noise, no other public hazards. The system doesn't produce any solid, liquid and gaseous harmful substances. It's absolutely environmentally friendly.
3. Simple installation and maintenance, low operating cost, suitable for unattended.
4. Good compatibility, photovoltaic power generation can be used together with other energy sources, and the photovoltaic system can be easily added the capacity as requirement.
5. The degree of standardization is high. The components can be connected in series and parallel to meet the needs of different power consumption. The versatility is strong.
6. Solar energy is available everywhere and has a wide range of applications.