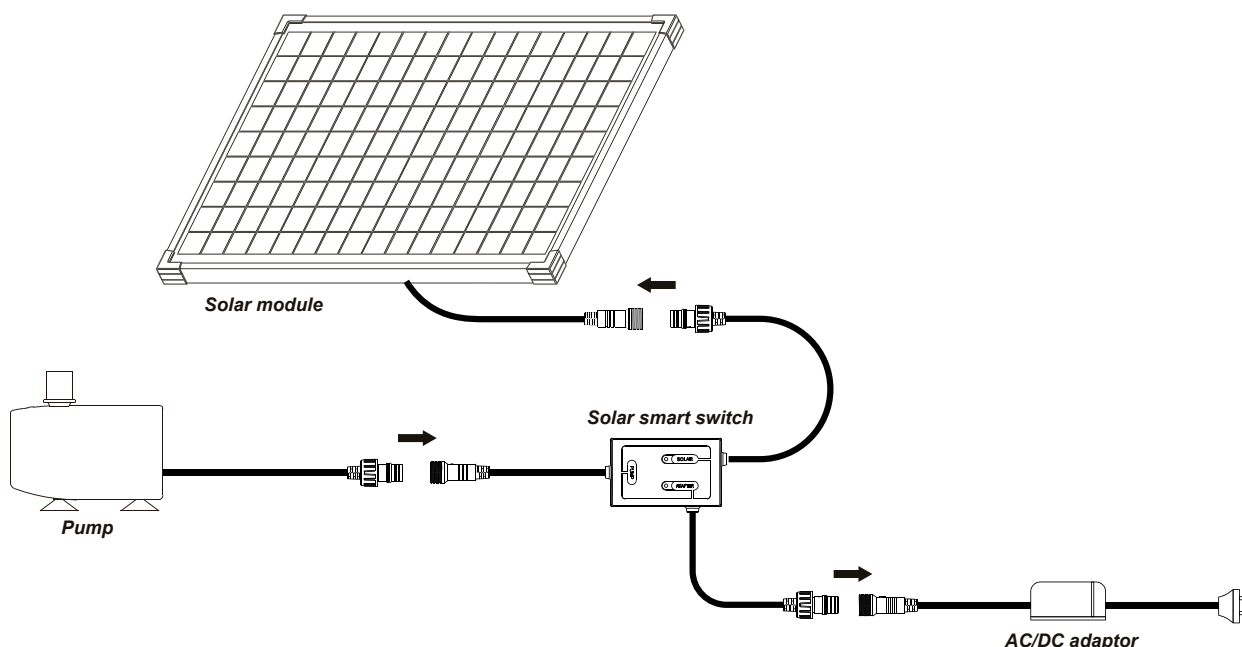


1. OVERVIEW

- 1) The solar smart switch is designed to fully make use of the solar power while ensuring a continuous pump operation regardless of sun light availability.
- 2) There are two power inputs, one is solar power from a solar panel, another one is mains power from an AC-DC adaptor.
- 3) When solar power is powerful enough to run the pump, the pump will be powered solely by the solar panel. The "SOLAR" indicator is on and the "ADAPTOR" indicator is off.
- 4) When solar power is not powerful enough to run the pump, the AC-DC adaptor will make up the power shortage and keep the pump working regularly. The "SOLAR" indicator is on and the "ADAPTOR" indicator is also on.
- 5) When solar power is not available, the AC-DC adaptor will run the pump solely. The "SOLAR" indicator is off and the "ADAPTOR" indicator is on.

2. SCHEMATIC DIAGRAM FOR INSTALLATION



3. TECHNICAL SPECIFICATIONS

Item No.	ZHQ-32	ZHQ-50	ZHQ-80
Specifications			
Input voltage (Solar / Adapter)	DC 6V	DC 18V	DC 18V
Max. input power (Solar / Adapter)	8W	50W	100W
Adapter	IP65, AC 220V/ DC6V, 0.5A, 3W cable length 2.5m	IP65, AC 220V/ DC18V, 1.33A, 24W cable length 2.5m	IP65, AC 220V/ DC18V, 3.0A, 54W cable length 2.5m
Output voltage	DC 6V	DC 18V	DC 18V
Max. Output power	2W	30W	60W
Cable length to solar panel	5m	5m	5m
Cable length to adapter	0.3m	0.3m	0.3m

Item No. Specifications	ZHQ-32	ZHQ-50	ZHQ-80
Suitable application	Solar water pumps: XCSP-200L/H Solar air pumps: XCSP-AIR01	Solar water pumps: XCSP-1400L/H, XCSP-1800L/H, XCSP-2000L/H, XF-SOLAR-680 Solar air pumps: XCSP-AIR02, XCSP-AIR03	Solar water pumps: XCSP-3500L/H, XCSP-5250L/H

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