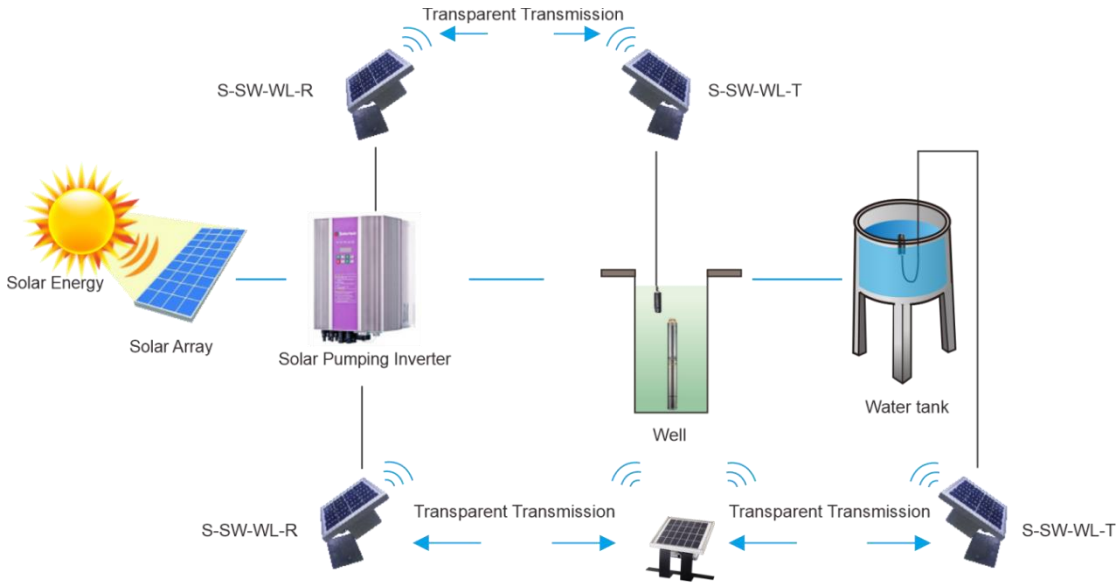
S-SW-WL Wireless Switch Module



S-SW-WL Wireless Switch Signal Module is based on a point-to-point wireless communication module to realize long-distance transmission of switching signals. The longest effective communication distance can reach 2 km.

The module includes a wireless switch signal sending module (S-SW-WL-T), and a wireless switch signal receiving module (S-SW-WL-R), and an optional wireless relay module (S-SW-WL-M), each with a solar panel and a mounting bracket.

Product Features

- Applying advanced wireless communication technology, high communication quality, up to 2 km effective communication distance
- Industrial-grade design, applying high-performance industrial-grade chips and communication modules, stable and reliable
- With solar MPPT charging management function, 4.5V~26V wide input voltage
- Optional relay version of the receiving module with (S-SW-WL-RB) for dry contact output control
- If the optional battery is not installed, when powered by PV only, once solar input power reaches 0.5W or above then can ensure the normal communication
- Optional 18650 battery to realize 24hours application
- Maximum charging current 500mA, the receiving module can also be powered by the inverter

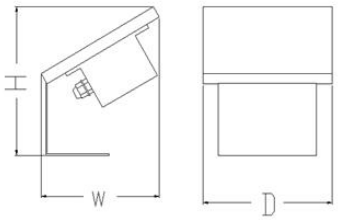
- Optional relay module, installed between the sending and the receiving modules, which can increase the communication distance (only support S-SW-WL)
- -20℃ ~ +50℃ ambient temperature, IP54 protection grade, satisfying indoor and outdoor installation requirements

Technical Specifications

Effective Communication Distance	≥2 km
Solar Panel Power	3 W
Solar Panel Vmp	7.3VDC/6.0VDC
DC Power Input Voltage	4.5-26VDC/24VDC(S-SW-WLB)
Relay (S-SW-WL-RB) Contact Specifications	AC 250V/3A，DC 30VDC/1A
Optional Battery Specifications	18650（≥2500mAh）
Standby Current	30-40 mA
Working Current	200 mA, peak current < 400 mA (5 V power supply)
Protection Grade	IP54
Ambient Temperature	-20~+60℃
Humidity	Daily average humidity < 90%
Altitude	≤3000 m

Product Dimension

Sending/Receiving Module Installed Dimension （W×H×D）	170 mm × 205 mm × 185 mm
Packing Dimension	355 mm × 280 mm × 225 mm
Sending/Receiving Module Net Weight	0.3 kg
Sending/Receiving Module Installed Net Weight (Solar Panel & Bracket Included)	1.3 kg
Gross Weight	3.5 kg



Product Applications

- **Long distance wireless transmission of water level signal in solar pumping system**
  - The sending module is installed at the water source or the storage side, sending water level status signal detected by water level switch to the receiving module.

- The receiving module is installed at the inverter side, receiving water level status signal and outputting switching signal to realize the water level detection function.

- **Long distance wireless transmission of other switching signals**
  - Remote manual control of the inverter startup and stop
  - Remote control of the inverter startup and stop via solar irradiance detection switch