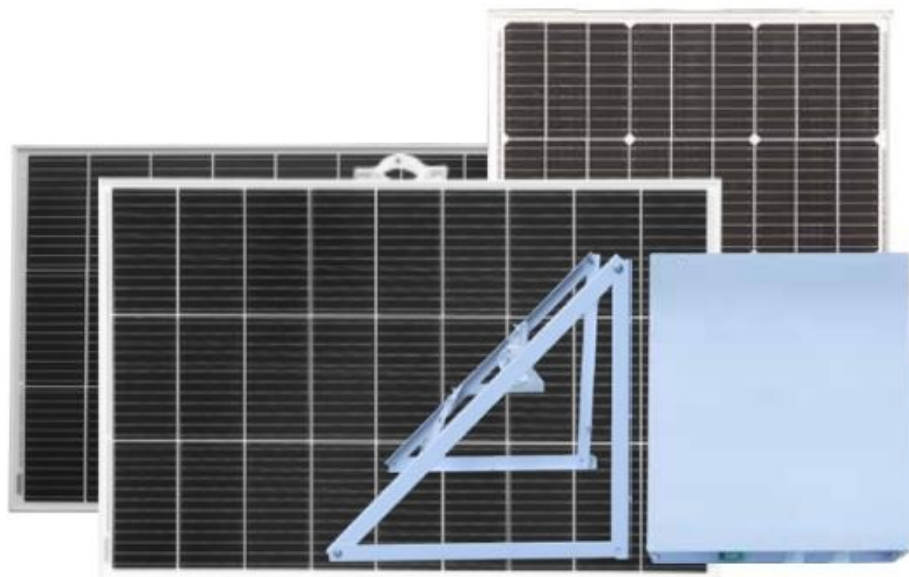




Solar Powered IOT System

Solar Powered IOT System

■ What is Solar Powered IOT System?

The Solar Powered IOT System is a power supply system that consists of solar panels paired with a lithium battery pack. The solar panel of this system adopts high-efficiency monocrystalline silicon cell, with photoelectric conversion efficiency above 21%. High-quality metal paste is applied to make the back field and electrodes to ensure good conductivity. The solar panels quickly replenish the batteries, and the whole system can continuously power DC loads.

■ What are the components of Solar Powered IOT System?

The Solar Powered IOT System consists of a solar controller, a battery management system (BMS), a lithium battery, and a solar panel mount. The solar controller adopts the latest voltage stabilization control technology and high efficiency charging technology, and also has over-voltage, over-charging and other protection functions, which can guarantee the normal operation of the solar power supply system.



Product Features



Highly efficient power generation

High-efficiency crystalline silicon power generation panels are used, which can quickly fill up the battery and keep the device in normal operation.



Excellent outdoor performance

Passed the environmental weathering test of sand, dust, smoke, rain and snow, adapting to the harsh outdoor environment.



Large Battery Capacity

Larger battery storage capacity provides sufficient power support for the device.



Strong compatibility

Cameras, sensors, street lights and other weak power equipment can be compatible with the use.

Product structure

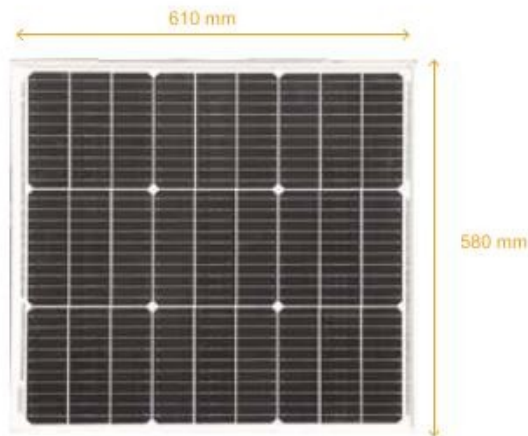


Installation Diagram



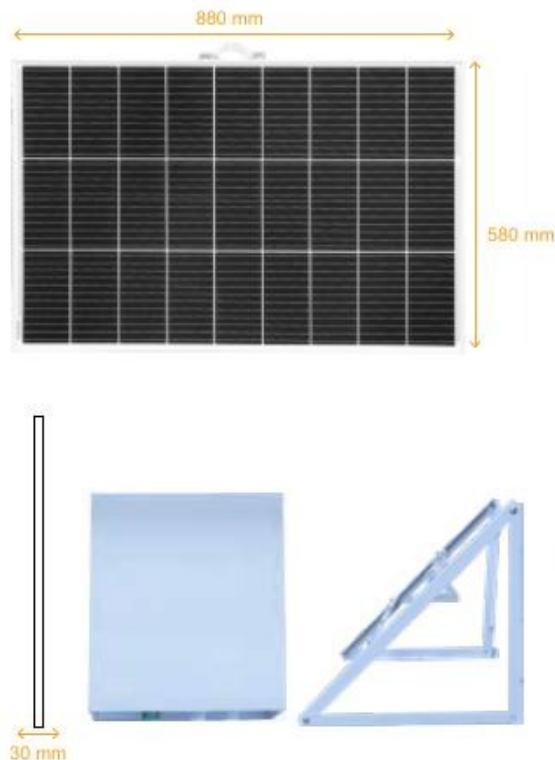
60W Solar Powered IOT System

*Standard test conditions: irradiance 1000W/m², component temperature 25°C, wind speed 0m/s, AM=1.5



Name	Detailed Parameter	Quantities
Solar panel	Type: A grade 210 monocrystalline silicon solar panel Peak Power: 60W Peak Current: 3.3A Operating Voltage: 18V Conversion Efficiency: 20% Dimension: 610*580*30mm Package: High transmittance tempered glass laminated Operating Temperature: -20 ~ +60 Lifetime: ≥10 years Qualification: Solar modules comply with IEC, TUV and other relevant certificates.	1
Fixed brackets	Structure material: 0235 steel triangle bracket, laser cutting and bending, including crossbeam, back beam, front beam, bottom beam, hot-dip galvanized anticorrosion technology processing. Bracket angle: customized according to the area of use Installation method: Holding pole type installation after assembling the bracket on site. Hoop specification: 76/114/140/165MM/customized Suitable for 60W single plate.	1
Storage and control box	Battery capacity: Li-ion ternary battery 12V 30AH Operating Temperature: -20~+60 Controller: waterproof MPPT controller Load output: 12V multi-channel combined voltage output Performance features: new maximum power point tracking technology (MPPT), maximum power point tracking efficiency > 99.9%. Excellent EMC design, real-time current statistics recording function, double limitation function of rated charging current and charging power. Internal integrated battery unit, solar control unit, power display module with temperature compensation, display/operation/fault indicator, circuit breaker protection, over-voltage and over-current protection.	1
Other accessories	DC head/screw kit and other accessories	1

Product Drawing



120W Solar Powered IOT System

*Standard test conditions: irradiance 1000W/m², component temperature 25°C, wind speed 0m/s, AM=1.5

Name	Detailed Parameter	Quantities
Solar panel	Type:A grade 210 monocrystalline silicon solar panel Peak Power:120W Peak Current:6.2A Operating Voltage:18V Conversion Efficiency:20% Dimension:880*580*30mm Package: High transmittance tempered glass laminated Operating Temperature:-20 ~+60 Lifetime:≥10 years Qualification:Solar modules comply with IEC, TUV and other relevant certificates.	1
Fixed brackets	Structure material: 0235 steel triangle bracket, laser cutting and bending, including crossbeam, back beam, front beam, bottom beam, hot-dip galvanized anticorrosion technology processing. Bracket angle: customized according to the area of use Installation method: Holding pole type installation after assembling the bracket on site. Hoop specification:76/114/140/165MM/customized Suitable for 120W single plate.	1
Storage and control box	Battery capacity: Li-ion ternary battery 12V 60AH Operating Temperature:-20+60 Controller: waterproof MPPT controller Load output: 12V multi-channel combined voltage output Performance features: new maximum power point tracking technology (MPPT), maximum power point tracking efficiency > 99.9%.Excellent EMC design, real-time current statistics recording function, double limitation function of rated charging current and charging power.Internal integrated battery unit, solar control unit, power display module with temperature compensation, display/operation/fault indicator, circuit breaker protection, over-voltage and over-current protection.	1
Other accessories	DC head/screw kit and other accessories	1

150W Solar Powered IOT System

*Standard test conditions: irradiance 1000W/m², component temperature 25°C, wind speed 0m/s, AM=1.5

Product Drawing



Name	Detailed Parameter	Quantities
Solar panel	Type:A grade 210 monocrystalline silicon solar panel Peak Power:150W Peak Current:8.3A Operating Voltage:18V Conversion Efficiency:20% Dimension:1250*670*30mm Package: High transmittance tempered glass laminated Operating Temperature:-20 ~+60 Lifetime:≥10 years Qualification:Solar modules comply with IEC, TUV and other relevant certificates.	1
Fixed brackets	Structure material: 0235 steel triangle bracket, laser cutting and bending, including crossbeam, back beam, front beam, bottom beam, hot-dip galvanized anticorrosion technology processing. Bracket angle: customized according to the area of use Installation method: Holding pole type installation after assembling the bracket on site. Hoop specification:76/114/140/165MM/customized Suitable for 60W single plate.	1
Storage and control box	Battery capacity: LI-Ion ternary battery 12V 30AH Operating Temperature:-20+60 Controller: waterproof MPPT controller Load output: 12V multi-channel combined voltage output Performance features: new maximum power point tracking technology (MPPT), maximum power point tracking efficiency > 99.9%.Excellent EMC design, real-time current statistics recording function, double limitation function of rated charging current and charging power.Internal integrated battery unit, solar control unit, power display module with temperature compensation, display/operation/fault indicator, circuit breaker protection, over-voltage and over-current protection.	1
Other accessories	DC head/screw kit and other accessories	1

Application Scenarios

The products have outstanding outdoor performance and are widely used in security monitoring, intelligent transportation, intelligent agriculture, river water conservancy, power patrol, environmental monitoring, river flood control, construction sites, mountains and forests and other difficult power supply scenarios.



KEJIA TRADE

SOLAR POWERED IOT SYSTEM

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