

## User Guide

### Introduction

This product converts solar radiation into electrical energy directly through the photoelectric or photochemical effect by absorbing sunlight. When used in conjunction with our GS1/GS2 series devices, it can charge the equipment in outdoor environments with sunlight exposure. This reduces the complexity of external deployment, promotes environmental sustainability, and saves energy and electricity.



### Applications

It is widely used in flower gardens, farms and other outdoor locations.

### Features

- IP67 (back glue treatment)
- Anti-drop aluminum frame
- Plug and Play
- DC5521 Interface
- Use with GS1 for a variety of outdoor scenarios

### Specification

Specification	
Product Model	UB-SP-A1
Material	aluminum frame + polycrystalline glass
Cable Length	5m
Dimensions	340*240*17MM ±0.5
Standard Output Power (@STC)	bare board 10W (-5%, +10%)
Open Circuit Voltage (@STC)	6V (-5%, +10%)
Standard Working Voltage(@STC)	5V (-5%, +10%)
Standard Working Current (@STC)	2A (-5%, +10%)
Short Circuit Current (@STC)	2.1A (-5%, +10%)
Cell Conversion Efficiency (%)	18.5%

### NOTE

1. This product cannot come into contact with strong corrosive substances.
2. Avoid scratching or hitting the surface of the solar panel with hard objects during use.
3. Solar panels cannot withstand bending stress during transportation and assembly. Do not place sensors directly in high-temperature environments.