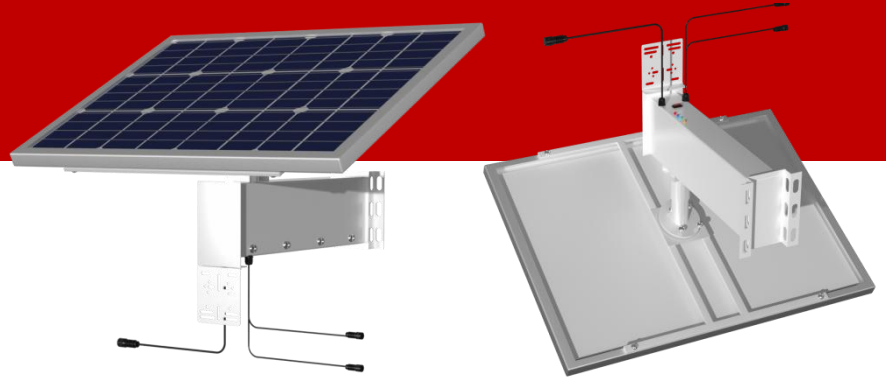


# Monitoring Solar Power Supply System

Model: CS8040



## Product Introduction

Without wiring, it can be used continuously for 360 days in a place with light. Fully enclosed IP65 is super waterproof, breaking the rules and adopting large capacity; Lithium battery, with long battery life, is far ahead in the industry. At the same time, it is equipped with high conversion photovoltaic panels and excellent power generation performance in low light environment; Fast charging and high photoelectric conversion rate. It can be charged normally and operated normally in rainy days.

## Features

- ◎ IP65 waterproof solar panel 80W solar panel, which is encapsulated by high-efficiency mono-crystalline silicon solar cells, has a conversion efficiency of not less than 20% and a module conversion efficiency of not less than 17%. Power: the peak power tolerance of the module is 3%, and high-quality tempered glass with high light transmittance is used; Excellent power generation performance in low light environment, and ideal charging effect can be achieved in rainy days.
- ◎ High-strength aluminum oxide frame, wear-resistant, one-time die-casting, durable; Unique technology makes the assembly beautiful and easy to install; Unique technology to avoid freezing and deformation of water in the frame; It can bear 5400Pa snow load and 2400Pa wind pressure.
- ◎ High-light-transmission tempered glass is used to effectively resist heavy rain and hail

## Specification

Model	CS8040 (80W40AH12.8V)
Solar Panel Specification	
Communication interface	Mono-crystalline silicon
Maximum power	80W (1000W/m <sup>2</sup> standard lighting test conditions)
Open circuit voltage	22VDC
Maximum current	4.4A
Dimensions	670*700*25 (mm)
Weight	7.2kg (including bracket)
Battery Specification	
Solution	MPPT (input maximum power tracking algorithm), constant voltage output,
Battery capacity	12.8V/40AH (512WH)
Charging indication	LED status indicator
Charging voltage	15-18VDC
Maximum charging current	8A
Output voltage	12±0.2VDC
Maximum output current	3A (total of 2 outputs)
Battery pack overcharge voltage	14.6VDC
Battery pack over-discharge voltage	10VDC
Input interface	Photovoltaic aviation plug
Output interface	DC5.5mm diameter standard male plug, 2 outputs in total
Power on power consumption	0.5±0.1W (normal temperature, no load when powered on)
Waterproof level	IP65
Storage temperature	0-45°C
Operating temperature	Charging: -10-50°C Discharge: -10-60°C
Dimensions	L50*W9.8*H8.3CM
Weight	7.2KG
Battery life and charging	
Power off endurance	2 years (battery pack has no output after shutdown, power loss is self-discharge of battery cells, about 3%-5%/month)
Power on endurance	About 25 days (normal temperature, no load)
Load endurance	About 3 days (room temperature, no charging, mobile camera mounted)
Recharge time (0-100% power)	Conditions: normal temperature, 80W photovoltaic panel, standard light duration 4-5 hours/day Without load: about 1 day With load: about 1.2 days

## Scope of application

Widely used in: street urban management law enforcement monitoring, river forbidden area monitoring, pipeline valve room monitoring in oil and gas industry, disaster prevention Internet of Things monitoring, national border defense monitoring, forest fire prevention and waterproof monitoring. Farm/orchard management, anti-theft of fish ponds, safety monitoring of construction sites, factory areas, expressway sections, outdoor parking lots, tourist attractions, poverty alleviation through new farming and other industries.



## Precautions for use

Solar panels should be installed in the surrounding areas where there are no high-rise buildings, trees, poles, etc., so as to fully obtain the energy of sunlight. When installing, pay attention to the positive and negative poles to avoid reverse connection of the positive and negative poles and short circuit of the positive and negative poles for a long time.

# HIMAX



HIMAX TECHNOLOGY LIMITED

[www.himax-technology.com](http://www.himax-technology.com)

Email: [sales@himax-technology.com](mailto:sales@himax-technology.com)

F10, Fuhong Building, No.120 Yongfu Road, Qiaotou Community Fuhai Street, BaoanDistrict, Shenzhen China



Company Website