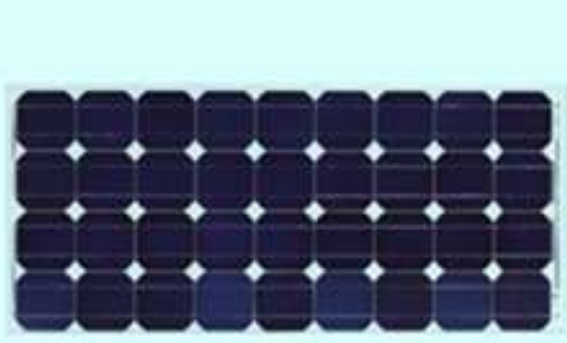
netvox®

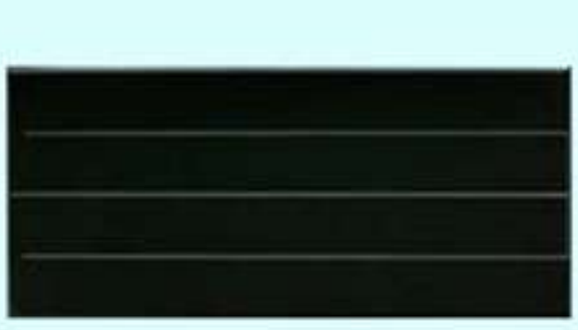
LoRaWAN™

DSC100

Renewable Energy Power Bank for IoT

Development of Solar Cells





1st generation — 1970s

Silicon-based

- Monocrystalline Silicon
- Polycrystalline Silicon

2nd generation — 1980s

Thin-film

- Silicon membrane
- Compounds (CIGS, CdTe, and GaAs…)

3rd generation — 1990s

Dye-Sensitized Cell (DSC)

- Organic Photovoltaic (OPV)
- Perovskite Solar Cell (PVSK)

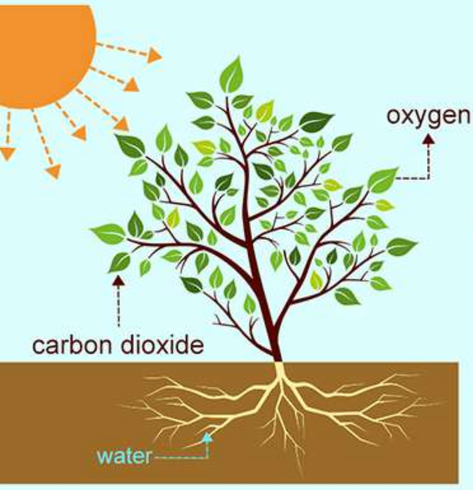
Power Generation of Solar Cells under Different Light Intensities

How Does DSC Work?

STEP1
Natural PhotoSynthesis

STEP2
Artificially designed dyes

STEP3
Light converted into electricity = light sensitizing



Introducing nanotechnology significantly improves light utilization efficiency

Why You Must Have a DSC100?

1. Eliminate the labor cost and potential quality issue of battery replacement
2. Meet Zero Carbon goal
3. Get government subsidy for using renewable energy
4. Enhance company and project image

DSC100 Renewable Energy Power Bank for IoT

A photovoltaic cell that converts visible light into electricity and supplies power to IoT devices

@2023 patent pending

- Install DSC100 and adjust the bracket
- Power IoT devices through Type-C / DC port
- Flip the switch for different output voltages
- Check LiC power through the LED indicator
- Receive devices' data reports

DSC100 Highlights

IP65

Protect DSC100 with Type-C ports from dust and water exposure

Adjustable Bracket

Increase power generation by adjusting the angle of the module

For Dim Environments

Convert indoor low-density light sources into energy

Lithium Capacitor

Long-lasting lifespan and safer user experience

Parallel Connection

Support high power-consuming devices and receive frequent reports

Connect DSC100 in Parallel

Why you need more than one DSC100?

- Increase the amount of power generated by DSC
- Support devices with higher power consumption
- Receive data reports more frequently
- Optimize performance in dim environments