

## RE Partner Solution Panasonic Amorphous Silicon Solar Cells (AMORTON)



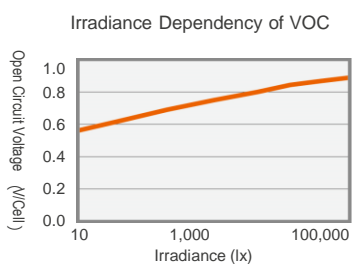
### Solution Summary

Amorton is the world's first integrated (series-connected) amorphous silicon solar cell. By connecting multiple solar cells in series using the patching technology, it is available to obtain any voltage depending on the application. In addition, by using metal and plastic as substrates, it is possible to make flexible solar cells that are thin and do not crack.

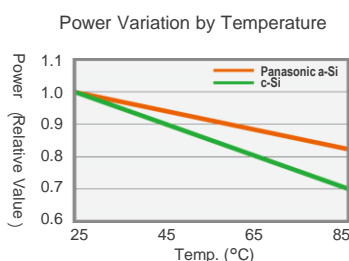
### Features

\*1: Approx.50-1000lx under indoor light sources such as incandescent and fluorescent lamps

#### Higher Voltage at Low Irradiance\*1

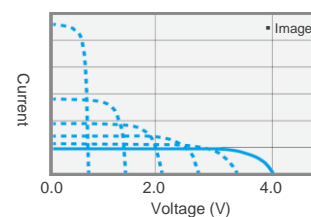


#### Smaller Power Loss at High Temperature



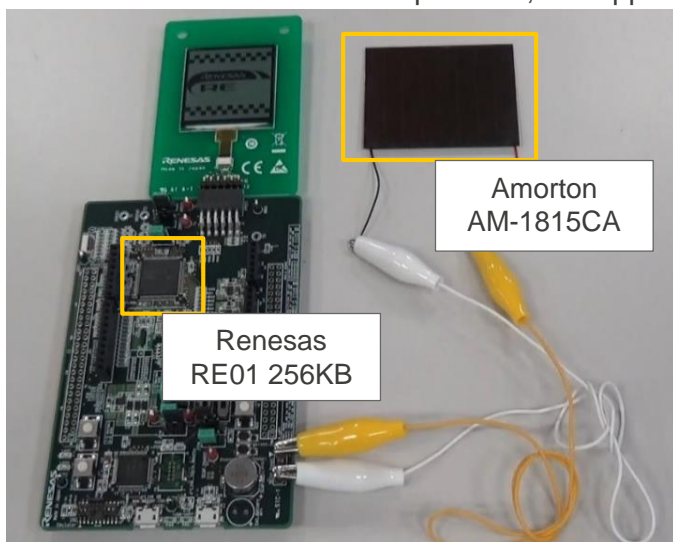
#### Flexible Setup of Operating Conditions (Rechargeable Battery – Friendly)

Various Voltage/Current Setup on the same effective area.



### Graphics

In combination with Renesas RE products, this application can be operated only with Amorton from Panasonic.



Renesas Evaluation Kit RE01 256KB

Amorton is included in the RE evaluation kits  
[Evaluation Kit RE01 1500KB \(RTK70E015DS00000BE\)](#)  
[Evaluation Kit RE01 256KB \(RTK70E0118S00000BJ\)](#)

See application note [r01an5406](#) for details.

### Target Markets and Applications

- Temperature & Humidity Sensor
- CO2 Sensor
- Human Body Sensor
- Inventory Detection Sensor
- Devices for Remote Work
- Automatic Flushing Sensor
- Electronic Shelf Label
- Picking System
- Beacon Terminal
- Tracking System
- Security Devices
- Wearable Devices
- Remote Controller
- Other Electronic Equipment and Power Supply for Digital Display

## Company Profile

- Company Name : Panasonic Solar Amorton Co., Ltd
- Headquarter Address : 1779-4 Sairenji, Matsumaike, Keitoku-machi,  
Kitakata, Fukushima, 966-0921, Japan
- Establishment : October 8nd, 2013
- President : Nobuyuki Tsujino
- Capital : 20 million yen
- Production Items : Amorphous Silicon Solar Cells  
Amorphous Photo sensors
- Employees : 109 (as of 1<sup>st</sup> January 2021)