

RE Partner Solution

TDK Film Solar Cell



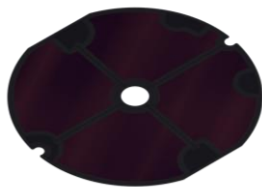
Solution Summary

TDK provides flexible amorphous silicon solar cells on film substrates. It's suitable for wearable applications (Smart Watch), IoT devices (Beacons and Wireless Sensor Networks). Combined with [RE](#)'s energy harvesting circuitry, battery maintenance free can be implemented.

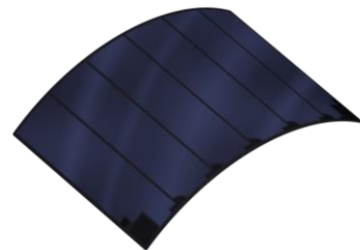
Features/Benefits

- High power generation efficiency under indoor light or low-light environment such as fluorescent lamps and LEDs.
- The products are well-known and are in the watch market for many years.
- Lightweight and thin, resistant to drops, flexible, and have excellent formability.
- Custom design is capable. Design customizing of outer shape, output power allows a good fitting for your products.

Diagrams/Graphics



Product name:BCSC241D4
Product Size: Φ 17mm
Thickness : 0.18mm(Electrode part)
0.15mm(other)



Product name:BCS4430B6
Product Size: 44 x30mm
Thickness : 0.18mm(Electrode part)
0.15mm(other)

Evaluation samples of both Standard Products and customized products are available for trial.

Target Markets and Applications

- Wireless Sensor Node / various sensors / IoT Terminal Power Supply
- Electronic Shelf Tag
- Wearable Device
- Watch
- Smart Card
- Beacon
- Home Automation
- Smart Lock
- Remote Controller


<https://product.tdk.com/ja/products/solar-cell/index.html>



About TDK

TDK at a Glance

(FY March 2021)

Corporate Name	TDK Corporation
Corporate Headquarters	2-5-1 Nihonbashi, Chuo-ku, Tokyo, 103-6128, Japan  Map (PDF:684KB) >
Date of Establishment	December 7, 1935
Authorized Number of Shares	480,000,000 shares
Number of Shares Issued	129,590,659 shares
Number of Shareholders	21,782
Common Stock	32,641,976,312 yen
Securities Traded	Tokyo Stock Exchange
Consolidated Net Sales	1,479.0 billion yen
Consolidated Net Income	79.3 billion yen
Number of Employees	129,284
Ratings	Corporate ratings (As of February 2021) : Baa1 (Moody's) , A- (Standard & Poor's) , A+ (R & I) Short-term bond (As of February 2021) : A-2 (Standard & Poor's)
Global Network	More than 250 factories, R&D, and sales offices in more than 30 countries
Main Businesses	<ul style="list-style-type: none">• Passive components• Sensor application products• Magnetic application products• Energy application products• Others

https://www.tdk.com/corp/en/about_tdk/tdk_at_a_glance/index.htm