

IN Your Future

Amorton – Indoor and Outdoor Solar Cells

Amorphous Silicon Solar Cells

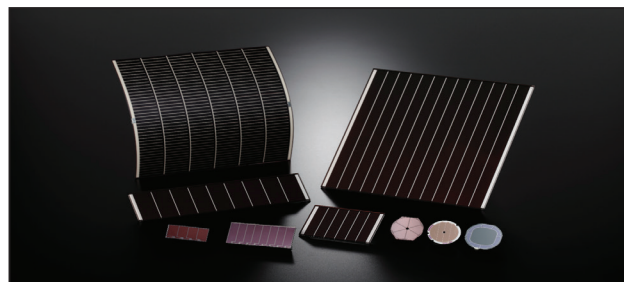
- > Indoor cells - glass & film substrates
- > Outdoor cells - glass & film substrates
- > Wristwatch cells - glass, film & stainless steel

Main features:

- > Generates energy at low light intensities (even at a few lux)
- > With and without lead wires
- > Huge standard portfolio
- > Large selection of different output voltages

USPs:

- > Customer-specific, tailor-made solutions
- > Ultra thin (~ 0.11mm – 1.6mm)
- > High shock and vibration resistance
- > Low temperature coefficient
- > Long lifetime



	Thickness	Pmax/active area	Voc (V/cell)
Indoor Glass Type	0.7mm & 1.1mm	7 – 7.8μW/cm2 (@200lx)	≈ 0.63V (@200lx)
Indoor Film Type	0.11mm - 0.2mm	7μW – 9μW/cm2 (@200lx)	≈ 0.7V (@200lx)
Outdoor Glass Type	1.6mm	7 – 8.2mW/cm2 (@AM1.5)	≈ 0.88V (@AM1.5)
Outdoor Film Type	0.3mm	4 – 5mW/cm2 (@AM1.5)	≈ 0.81V (@AM1.5)



Markets:

- > Watch market
- > Building automation
- > IoT asset tracking
- > Retail
- > Consumer



Application:

- > Wristwatches
- > Wireless sensors
- > Wireless asset trackers
- > Electronic Shelf labels
- > Status monitoring tools
- > Remote controls
- > Smart beacons

Would you like to know more?

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