



E-TONOMY

Making life a little bit more efficient

:: csem



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E-tonomy—Say goodbye to wires & recharging batteries!

Products—Power

Innovation

- Seamless integration of PV cells into your products
- Perfectly black PV cells
- Fitting tight mechanical tolerances thanks to the latest techniques in laser ablation, dicing & engraving
- High performance with indoor light conditions
- Reliability & Swiss made quality

Applications

- Power new functions in watches, smart & autonomous wristbands
- Power wireless sensors to monitor occupation, air quality, temperature, noise level etc—in the workplace or at home

Specifications

- ✓ Combined humidity heat tests
- ✓ ESD according to IEC 61000-4-2
- ✓ No discoloration after 500h of UV testing
- ✓ Available in different hues dark blue, dark green or deep black
- ✓ Customs dimensions between 0.1 & 10 cm²
- ✓ Flexible & rigid devices

Have you got a new product idea?

Drop us a line—we will help you get rid of wires and batteries

Performances

- Outdoor direct sun @100'000 lux 8'000 $\mu\text{W} / \text{cm}^2$
- Outdoor cloudy @10'000 lux 800 $\mu\text{W} / \text{cm}^2$
- Indoor @500 lux 25-30 $\mu\text{W} / \text{cm}^2$



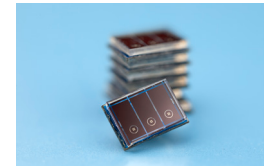
PV watch dial with up to 5x more power



Flexible PV cells integrated into wristbands



50 x 50 mm² wireless sensor with our PV cells



Miniature 5 x 3 mm² PV cells for ultra-low power applications

www.csem.ch/watchmaking

