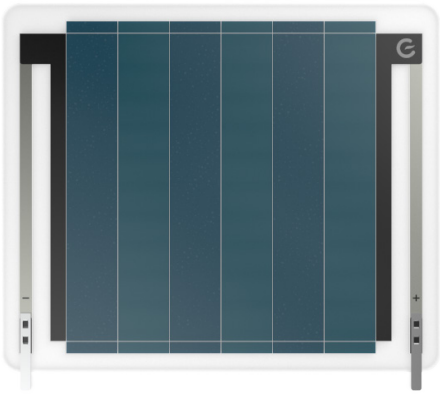
Epishine's Organic Indoor Light Energy Harvesting Modules (LEHs) are the result of 30+ years experience of research in organic electronics and photovoltaics. Epishine LEHs are flexible and can be used alone or in conjunction with capacitors to replace batteries or prolong their lifetime in low-power applications.

In Short

- Ideal for powering wireless indoor low-power applications, such as IoT devices, various sensors, etc.
- Made from low-cost organic materials
- Reduce environmental impact by up to 99% and cut maintenance costs by replacing batteries in wireless devices
- Intended for use indoors and under indoor light conditions, e.g. home, office, supermarket, etc.
- Flexible, compact and lightweight design with 0.2 mm thickness
- Available in 6 standard[1] sizes: 20, 30 and 50 mm with 6- or 8-cells
- Semi-transparent module area for easy integration
- Made in Sweden

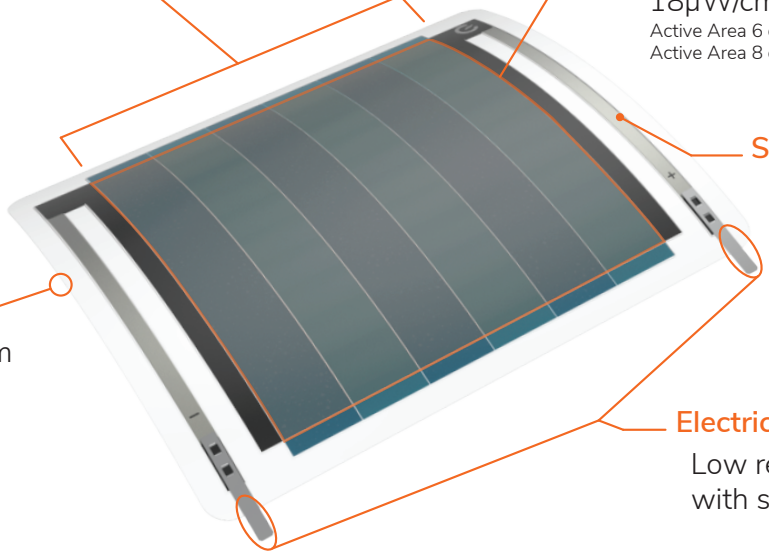


Low Light 50 lux | Overhead Light 200 lux | Office 500 lux | Supermarket 1000 lux

Our Modules[2]

Operating Environment
Intended for indoor use
Temperature: -20°C to 40°C
Humidity: 0 to 85%RH

Power Density[3] of Active Area
18µW/cm² (at 500lux)
Active Area 6 cells = 88% of module area
Active Area 8 cells = 84% of module area



Smallest Bending Radius
1cm (along longer side)

Encapsulation Barrier
Protects the LEH module from oxygen and moisture

Electrical Contacting
Low resistance crimp contacts with soldering tabs

[1] custom sizes and tailored layouts are available on request
[2] we constantly try to improve our products (and ourselves) and hence all technical data is subject to change without notice
[3] typical values measured at 500 lux warm white LED on white background at 22±5°C and a relative humidity of 45%

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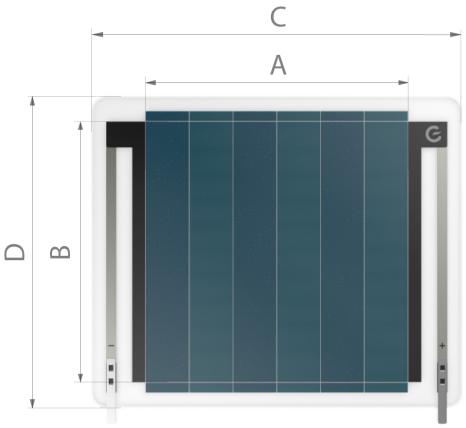
LEH3 - Key Characteristics

LEH3_AAxBB_C_NN

- **Generation**
- **Number of Electrical Cells**
  - 6 cells
  - 8 cells
- **Light Energy Harvesting**
- **Module Area: Width(A)xLength(B)**
  - 50x50mm Active Area 6 cells = 88% of module area
  - 50x30mm Active Area 8 cells = 84% of module area
  - 50x20mm
- **Type Specifier**
  - 00: electrode arms without contacts
  - 10: electrode arms with crimp contacts
  - XX: custom



Product Code	Open Circuit Voltage[1,2] (V)	Short Circuit Current[1,2] (µA)	Output Power[1,2] (µW)	Cells	A (mm)	B (mm)	C (mm)	D (mm)
LEH3_50x50_6_10	3.8	147	418	6	50	50	71.5	60
LEH3_50x50_8_10	5.05	105	375	8	50	50	71.5	60
LEH3_50x30_6_10	3.8	88	250	6	50	30	71.5	40
LEH3_50x30_8_10	5.05	62	221	8	50	30	71.5	40
LEH3_50x20_6_10	3.8	59	167	6	50	20	71.5	30
LEH3_50x20_8_10	5.05	42	150	8	50	20	71.5	30

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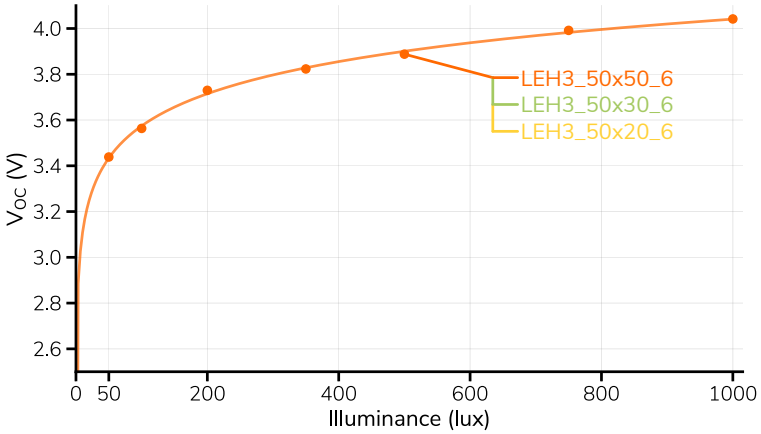
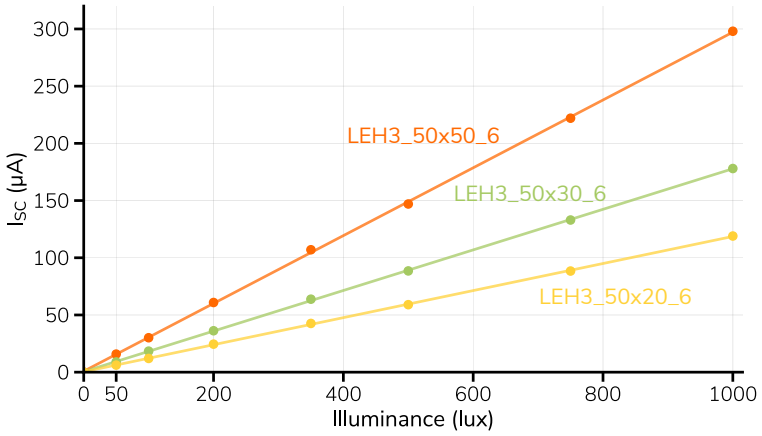
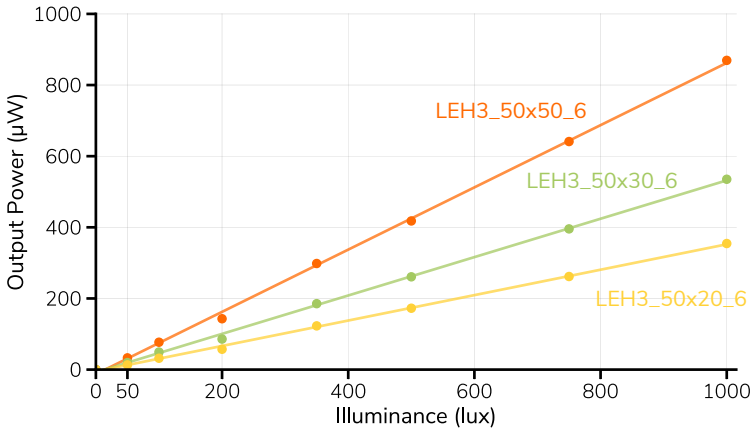
Open Circuit Voltage *Voc*



Short Circuit Current *Isc*



Maximum Output Power *Pmax*



Current-Voltage Characteristics