
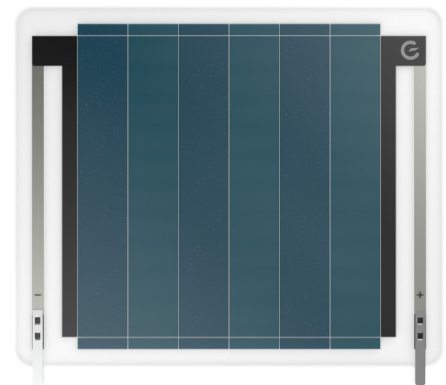


/ In short

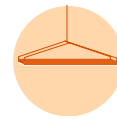
- Ideal for powering wireless indoor low-power applications, such as IoT devices, sensors and small electronics
- Cut total cost of ownership by half or more and significantly reduce the amount of waste batteries (by eliminating battery replacements)
- Industry leading performance under indoor light conditions, e.g. home, office, supermarket, etc.
- Flexible, compact and lightweight design with 0.2 mm thickness for easy integration
- Fully customizable¹ and available in 6 standard versions for optimal usage of available product area
- Radio-transparent, making it possible to use more product area for the module
- Based on organic materials. Made in Sweden 



Low Light
50 lux



Overhead Light
200 lux



Office
500 lux



Supermarket
1000 lux

/ Our modules²

Operating Environment

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

Power Density³ of Active Area

$18 \pm 2 \mu\text{W}/\text{cm}^2$ (at 500lux)
Active Area 6 cells = 88% of module area
Active Area 8 cells = 84% of module area

Encapsulation Barrier

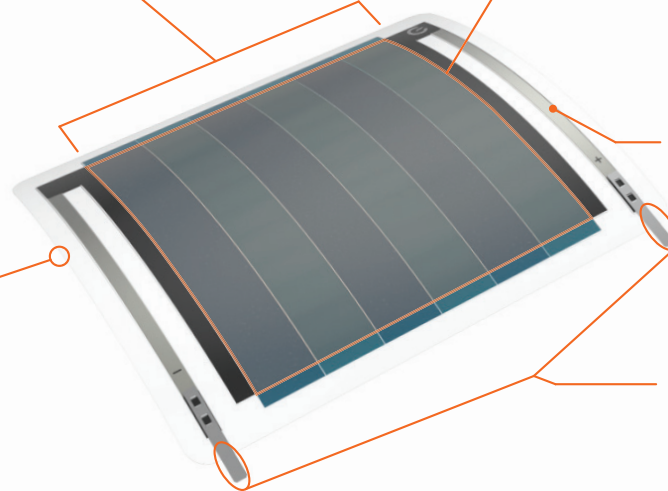
Protects the LEH module from oxygen and moisture

Smallest Bending Radius

1cm (along longer side)

Electrical Contacting

Low resistance crimp contacts with soldering tabs



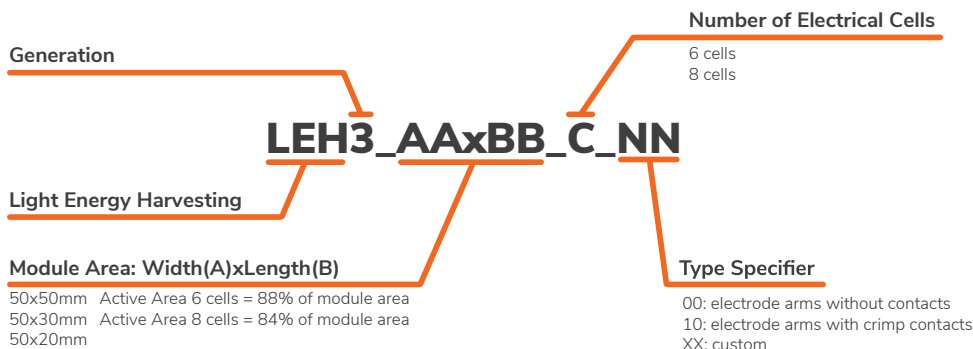
¹ We can provide layouts with cut-outs and holes

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 $22 \pm 2^\circ\text{C}$ and a relative humidity of $45 \pm 2\%$



/ Key characteristics & general outputs

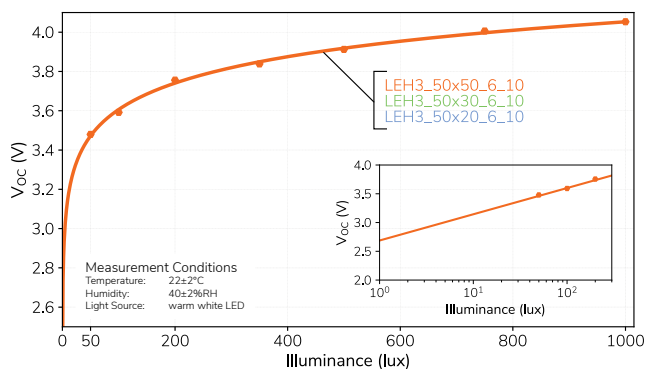


Product Code	Open Circuit Voltage ^{1,2} (V)	Short Circuit Current ^{1,2} (µA)	Output Power ^{1,2} (µW)	Cells	A (mm)	B (mm)	C (mm)	D (mm)
LEH3_50x50_6_10	3.8	147	418	6	50	50	71.5	60
LEH3_50x50_8_10	5.05	105	375	8	50	50	71.5	60
LEH3_50x30_6_10	3.8	88	250	6	50	30	71.5	40
LEH3_50x30_8_10	5.05	62	221	8	50	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

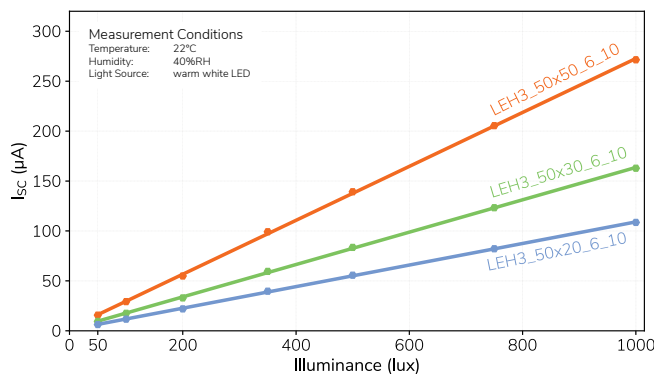
¹ We constantly try to improve our products (and ourselves) and hence all technical data is subject to change without notice

² Typical values measured at 500 lux warm white LED on white background at 22±2°C and a relative humidity of 45±2%

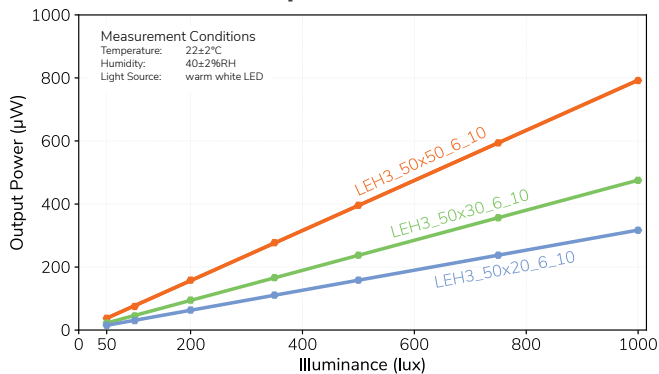
Open Circuit Voltage Voc



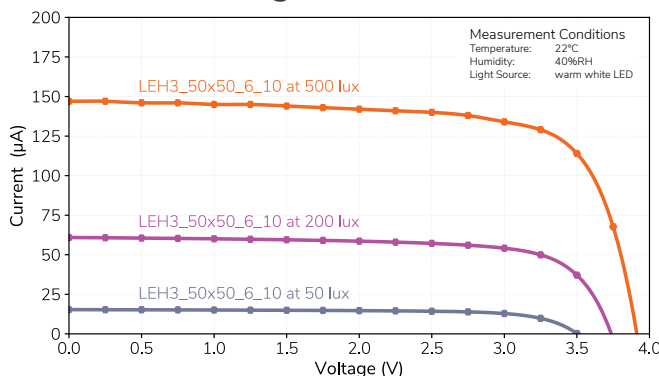
Short Circuit Current Isc



Maximum Output Power P_{max}



Current-Voltage Characteristics



/ Low illumination Output

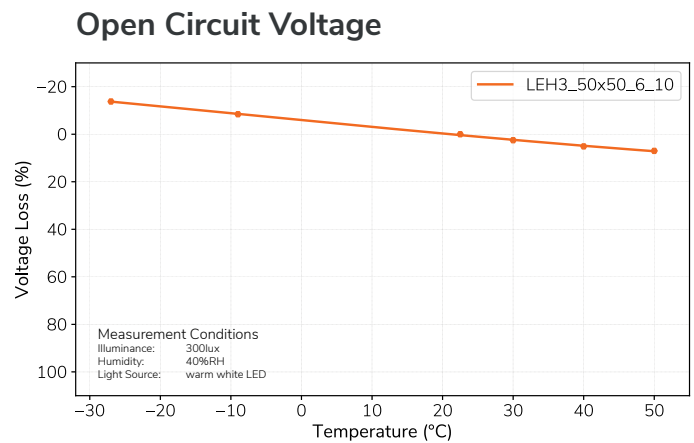
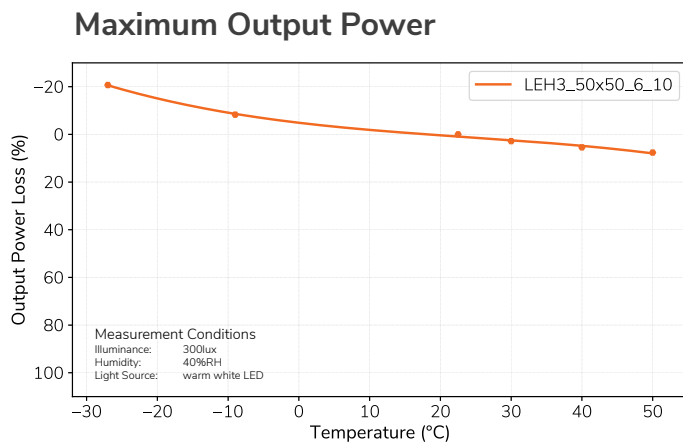
The electrical output of our LEH3 series modules is maintained at a high level also under low light conditions.

Power ¹ (μW)			
	LEH3_50x50_6_10	LEH3_50x30_6_10	LEH3_50x20_6_10
50 Lux	35	21	14
100 Lux	75	45	30
200 Lux	155	94	62

¹Typical values measured at 500 lux warm white LED on white background at 22±2°C and a relative humidity of 45±2%

/ Temperature Dependence

The electrical output characteristics of our LEH3 series modules show a slight temperature dependence within the specified operating environment, with excellent low-temperature behaviour. Note that humidity does not affect the output characteristics within the standard operating conditions. All mechanical properties remain the same throughout a wide range of conditions.



/ Light Angle Dependence

The electrical output characteristics of our LEH3 series modules have a comparably low angular dependence. The angular dependence is a function of light refraction and reflection at the surface and may be further improved by e.g. surface modification. Please contact us for more information.

