



Datasheet



Product	SKLep SSM Power Cell	SKLep SSM Power Assembly
Model	SKLep-SSM-12V-10W	SKLep-SSM-A-xxV-yyW
Design	High Capacity 12V/10W power cell	Assembly with multiple 10W cells
Application	Cost-Effective Stationary and Mobile 24/7 Sustainable Generation of Electricity	

Output Data (DC)

Output Voltage ¹⁾	Vout	1-12 V DC +- 1% (ON), 0 V (OFF)	Data depends on power and assembly design
Max Operational Power		10 W	
Operational Current ²⁾	Iout	Function of Vout	
Overload Protection ²⁾		Integrated AI control	
Serial & Parallel Connection ³⁾		Yes	

Energy Data

Capacity	298 kWh ⁴⁾ , >1 000 kWh ⁵⁾	Data depends on power and assembly design
Volume Density	3 725 kWh/L ⁴⁾ , >12 500 kWh/L ⁵⁾	
Weight Density	9 933 kWh/kg ⁴⁾ , >33 000 kWh/kg ⁵⁾	
Heat Dissipation	<1 Wh/h (ON), 0 Wh/h (OFF)	
Electricity Generation	E-Cat Technology ⁶⁾	

Sustainability

Non Hazardous Classification	Yes, with reference to the compliances below	
Lithium [Weight]	< 1 g	Data depends on power and assembly design
Nickel [Weight]	< 5 g	
Recycling by Manufacturer	100 % of product content	
Warranty	3 years full (26 280 operational hours)	
Expected Operational Lifetime	>100 000 hours	

Mechanical Data

Operating Temperature Range	- 20 °C to + 60 °C	
Isolation Design	IEC 60112	
Dimensions	Cylindric: D= 60 mm , L=30 mm	Data depends on power and assembly design
Weight	30 g	
Output DC Connector	Free cables	

Compliances

Safety and EMC Compliances	CE	EN 55015, 61457, 62493, 60598-1, 60598-2-1, 62031 EN IEC 61000-3-2, 61000-3-3
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Remarks

- 1) The cell is switched ON when connected to an allowed load R_{load}. Reaction Time from OFF to ON is < 1 s.
- 2) I_{out} = V_{out} / R_{load}. The cell is switched OFF when R_{load} is disconnected or load exceeds Max Operational Power.
- 3) Power cells and assemblies can be interconnected in serial and parallel to achieve higher voltage and power.
Allowed serial voltage: < 240 V
- 4) Calculated from the 3 years full warranty
- 5) Calculated from the estimated lifetime of >100 000 hours
- 6) **Self Sustained Mode** extraction of electricity from ZPE field , referenced publication :
www.researchgate.net/publication/330601653_E-Cat_SK_and_long_range_particle_interactions

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This document is subject to change without notice. The latest version is found on <https://ecat.com>

The E-Cat: 24/7 Unlimited Sustainable Electricity from Nature

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