



## Datasheet



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

### Output Data (DC)

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

### Energy Data

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

### 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	<b>CE</b>	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<sub>load</sub>. Reaction Time from OFF to ON is < 1 s.
- 2) I<sub>out</sub> = V<sub>out</sub> / R<sub>load</sub>. The cell is switched OFF when R<sub>load</sub> 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 (SSM)** extraction of electricity from ZPE field, referenced publication :  
[www.researchgate.net/publication/330601653\\_E-Cat\\_SK\\_and\\_long\\_range\\_particle\\_interactions](http://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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