



NGU Technical Data ^{7) 8)}



Product	<i>NGU Power Cell</i>	<i>NGU Generators</i>
Model	<i>SKL-NGU-10W</i>	<i>SKL-NGU-xxW</i>
Design	<i>High-Capacity Power Cell</i>	<i>Generator with multiple Power Cells</i>
Application	<i>Cost-Effective Stationary and Mobile 24/7 Sustainable Generation of Electricity</i>	

Output Data (DC)

Output Voltage ¹⁾	Vout	1-12 V DC +- 1% (ON), 0 V (OFF)	1-12 V DC +- 1% (ON), 0 V (OFF)
Max Power (Continuous)		10 W	100 W
Operational Current ²⁾	Iout	Function of Vout	
Overload Protection ²⁾		Integrated AI control	
Serial & Parallel Connection ³⁾		Yes	

Energy Data

Capacity	0.3 MWh ⁴⁾ , >1 MWh ⁵⁾	Data depends on power and design
Volume Density	3.7 MWh/L ⁴⁾ , >12.5 MWh/L ⁵⁾	
Weight Density	9.9 MWh/kg ⁴⁾ , >33 MWh/kg ⁵⁾	
Heat Dissipation	<1 Wh/h (ON), 0 Wh/h (OFF)	
Electricity Generation	E-Cat Technology with SSM ⁶⁾	


Sustainability

Non Hazardous Classification	Yes, with reference to the compliances below	
Lithium [Weight]	<1 g	Data depends on power and 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 design
Weight	30 g	
Output DC Connector	Free cables, 5 cm long	

Compliances

Safety and EMC Compliances	 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 NGU 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 generators 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
- 7) Detailed data for NGU Generators are available on request.
- 8) **SKL**: Sven Kullander Leonardo. **NGU**: Never Give Up.

E-Cat Power NGU Datasheet - October 2024

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

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

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