




## Datasheet 6) : NGU Power Cell & 100W Basic Generator

	<b>Product</b>	<b>NGU 10W Power Cell</b>	<b>NGU 100 W Basic Generator</b>
	<b>Model</b>	<b>SKL-NGU-10W</b>	<b>SKL-NGU-100W</b>
	<b>Design</b>	<b>High-Capacity Power Cell</b>	<b>Basic Generator from 10 Power Cells</b>
	<b>Application</b>	<b>Cost-Effective Stationary and Mobile 24/7 Sustainable Generation of Electricity</b>	

### Output Data

DC Voltage 1):	$V_{set}$	12 V +- 1%	12 V
Rated Continuous Power	$P_{max}$	10 W	100 W
Operational Current 2)	$I_{out}$	Function of $V_{set}$	
Overload Protection 2)		Integrated AI control	
Serial & Parallel Connection		Max. serial voltage = 240 V	Options on request
AC Voltage Output		Options on request	

### Energy Data

Power Capacity / Year 3)		87 kWh	870 kWh
Power Density [kW / liter]		0.12	0.12
Power Density [kW / kg]		0.33	0.4
Heat Dissipation		Less than 10 % of output power	
Grey Energy [%] 4)		Less than 0.1 %	
Warranty		3 years full = 26 280 operational hours	
Expected Lifetime		More than 100 000 operational hours	


### Sustainability

Non Hazardous Class		Yes, with reference to the compliances below	
Electricity Generation 7)		E-Cat Technology with SSM	
Recycling		100 % of product content can be recirculated by the manufacturer	

### General Data

Installation		Stationary Use - Horizontal mounting (0 degree) with max + - 45-degree deviation	
Operating Temperature		- 20 °C to + 60 °C	
Case Design 5)		Cylinder from 3mm white Plexiglas	
Water Protection		Indoor Use - Other protection level on request	
Isolation Design		IEC 60112	
Dimensions		Cylindric: D = 60 mm, L= 30 mm	Cylindric: D = 60 mm, L= 300 mm
Weight [g]		30 g	250 g
DC Connection 5)		2 wires - 5 cm long	2 wires - 10 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) Rated DC voltage  $V_{set}$  is by default factory set to 12 V.
- 2)  $I_{out} = V_{set} / R_{load}$ . Output is auto switched to OFF (0 V) when  $R_{load}$  is disconnected or  $I_{out} > P_{max}/V_{set}$ . Output is auto switched ON ( $V_{set}$ ) when connected to  $R_{load}$  and  $I_{out} = < P_{max}/V_{set}$ . Reaction Time from OFF to ON is  $< 1$  s
- 3) Maximal DC Power Generation [kWh] per year =  $P_{max} * 365 * 24$  h
- 4) Share of potential energy generation during the estimated lifetime of  $>100$  000 hours
- 5) Alternative option available on customer request.
- 6) More detailed data available on request. See also white paper: "[E-Cat Power : The Impossible Made Possible](#)".
- 7) 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)



## Datasheet 6) : NGU Power Generators



<b>Produkt</b>	NGU 1kW	NGU 2kW	NGU 3kW	NGU 5kW	NGU 10kW	NGU MW Plant
<b>Model</b>	SKL-NGU-1K	SKL-NGU-2K	SKL-NGU-3K	SKL-NGU-5K	SKL-NGU-10K	SKL-NGU-1/2M
<b>Design</b>	Power Generators made from serial & parallel connection of multiple Basic 100W Generator					
<b>Application</b>	Cost-Effective Stationary and Mobile 24/7 Sustainable Generation of Electricity					

### Output Data

DC Voltage :1) $V_{set}$	On request	On request	On request	On request	On request	On request
Rated Power $P_{max}$	1 kW	2 kW	3 kW	5 kW	10 kW	1 MW / 2 MW
Operational Current 2) $I_{out}$	Function of $V_{set}$ ( $I_{out} = V_{set} / R_{load}$ ) – details on request					
Serial & Parallel Connection	Depends on rated power and voltage – details on request					
AC Voltage Output	Option – details on request					

### Energy Data

Power Capacity / Year 3)	8 300 kWh	16 600 kWh	24 900 kWh	41 600 kWh	83 000 kWh	830 /1 660 MWh
Power Density [kW / liter]	0.27	0.27	0.27	0.27	0.27	On request
Power Density [kW / kg]	0.5	0.67	0.75	0.83	0.91	On request
Heat Dissipation [%]	Less than 10 % of Output power					
Grey Energy [%] 4)	Less than 0.1 %					
Warranty	3 years full = 26 280 operational hours					
Expected Lifetime	More than 100 000 operational hours					

### Sustainability

Non Hazardous Class	Yes, with reference to the compliances below					
Electricity Generation 7)	E-Cat Technology with SSM					
Recycling	100 % of product content can be recirculated by the manufacturer					

### General Data

Installation	Stationary Use - Horizontal mounting (0 degree) with max + - 45-degree deviation					
Operating Temperature	- 20 °C to + 60 °C					
Case Design 5)	3mm white Plexiglas cover					On request
Water Protection	Indoor Use - Other protection level on request					
Isolation Design	IEC 60112					
Dimensions	25 x 15 x 10 cm	25 x 15 x 20 cm	25 x 15 x 30 cm	25 x 15 x 50 cm	25 x 15 x 100 cm	20 / 40 ft cont.
Weight [kg]	2 kg	3 kg	4 kg	6 kg	11 kg	On request
Volume [liter]	3.75	7.5	11.3	18.8	37.5	On request
DC Connection 5)	2 wire 100 cm cable					On request

### 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

- $V_{set}$  is factory set by the appropriate serial & parallel combination of the required number of the 12V/100W Basic generator. Possible values for  $V_{set}$  are available on request.
- $I_{out} = V_{set} / R_{load}$ . Output is auto switched to OFF (0 V) when  $R_{load}$  is disconnected or  $I_{out} > P_{max} / V_{set}$ . Output is auto switched ON ( $V_{set}$ ) when connected to  $R_{load}$  and  $I_{out} < P_{max} / V_{set}$ . Reaction Time from OFF to ON is  $< 1$  s
- Maximal DC Power Generation [kWh] per year =  $P_{max} * 365 * 24$  h
- Share of potential energy generation during the estimated lifetime of  $> 100$  000 hours
- Alternative option available on customer request.
- More detailed data available on request.  
See also white paper: "E-Cat Power : The Impossible Made Possible".
- 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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