Carbon-based Power Capacitor Specifications



	23680G-040-4 0	
Nominal capacity (discharged with standard profile $<1C) \pm 5\%$	4,00	Ah
Nominal energy (discharging @1C till cut-off)	13,8	Wh
Nominal voltage	4,00	V
Recommended cut-off voltage @ 1C	2,50	V
Max. recommended charging voltage **	4,20	V
Rated capacity (discharging 50% max current till cut-off voltage)	3,90	Ah
Rated energy (discharged 50% max. current until the cut-off voltage) (cell)	13,0	Wh
Max. C-rate charging *** (cell)	1,25	С
Max. C-rate discharging *** (cell)	1,5	С
Max. continuous charging current *** (cell)	5,00	А
Max. continuous discharging current *** (cell)	6,00	А
Max. sustained power capability *** (cell)	20	W
Ohmic Resistance Ri (@50% SoC)	≤ 32	mΩ
Gravimetric energy density (cells) (@1C)	197	Wh/kg
Volumetric energy density (cells) (@1C)	464	Wh/dm
Gravimetric power density (cells) @ max. C-rate	343	W/kg
Cycles life at 25°C	> 10.000	cycles
Dimensions of cell	23,6∅ x 68H	mm
Recommended transportation voltage	3,50	V
Recommended storage voltage	3,50	V
Operation temperature	-30 to +70	°C
Storage temperature	-20 to +45	°C
Retained energy after 28 days at 25°C	92	%
Short circuit temperature	< 150	°C
Weight of cells	70	g
Guarantee period (manufacturing)	12	months
Fire Hazardous substances: Cells do not pose a fire or explosion risk.		

* Custom designed. Specifications might deviate.

** Cell damage possible outside these margins

 *** Max. C-rating of powerpack is limited by selected cable and connector parameters and can be lower than theoretical maximum derived from cell parameters.
C-rates can be higher than maximum for a short duration. Contact Altreonic case by case.



Graphs as tested on a specific cell

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www.kurt.energy 18 October 2022