

## Carbon-based Power Capacitor Specifications



	23680G-040-40	none	none	
Nominal capacity (discharged with standard profile <1C) ± 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			C
Max. C-rate discharging *** (cell)	1,50			C
Max. continuous charging current *** (cell)	5,00			A
Max. continuous discharging current *** (cell)	6,00			A
Max. sustained power capability *** (cell)	20,0			W
Ohmic Resistance Ri (@50% SoC)	32,0			mΩ
Gravimetric energy density (cells) (@1C)	197			Wh/kg
Volumetric energy density (cells) (@1C)	464			Wh/dm <sup>3</sup>
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	92,0			%
Short circuit temperature	< 150			°C
Weight of cells	70,0			g
Guarantee period (manufacturing)	12,0			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.