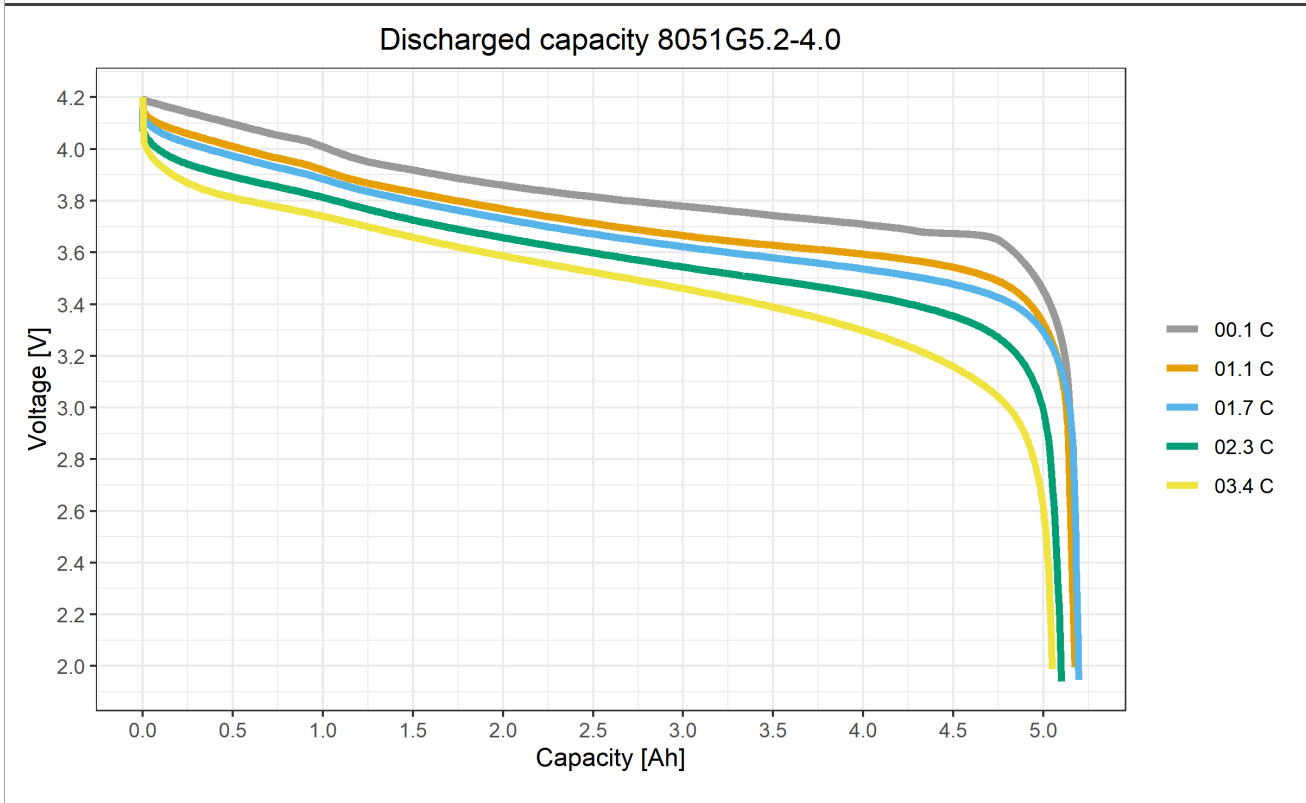


## Carbon-based Power Capacitors Specification (preliminary)

Cell type	8860G-45Ah40
Nominal capacity (discharged with standard profile <1C) $\pm$ 5%	4,50 Ah
Rated capacity (discharging 50% max current till cut-off voltage)	4,05 Ah
Nominal energy (discharged with standard profile <1C)	16,5 Wh
Rated energy (discharging 50% max. current till cut-off voltage)	14,9 Wh
Nominal voltage	4,00 V
Max. recommended charging voltage	4,20 V
Max. float charging voltage **	4,10 V
Recommended cut-off voltage @ 1C	2,70 V
C Rating charging	1,5 C
C Rating discharging	1,5 C
Max. continuous discharging current	6 A
Max. sustained power capability	31,0 W
ESR / Equivalent max. resistance at 25°C	3 / 5 m $\Omega$
Dimensions L x W xH mm	88 x 60 x 9,3 mm
Recommended transportation voltage	3,50 V
Recommended storage voltage	3,50 V
Operating temperature	-30 to +70 °C
Storage temperature	-20 to +45 °C
Gravimetric energy density (cells)	183 Wh/kg
Volumetric energy density (cells)	336 Wh/dm <sup>3</sup>
Cycles life at 25°C	> 20000 cycles cycles
Retained energy after 28 days at 25°C (@ 4V)	98 %
Short circuit temperature	< 150 °C
Guarantee period (manufacturing)	12 months
Thermal heat at nominal current	0,06075 W
Weight of cells	90,0 g

Fire Hazardous substances: Cells do not pose a fire or explosion risk.

Typical discharged capacity graph prototype 8051 cell (tested at room temperature 25°C +/- 2 °C)



Typical discharged energy graph prototype 8051 cell (tested at room temperature 25°C +/- 2 °C)

