Carbon-based Power Capacitor Specifications

Cell type	23680G-40Ah40	221128G-20Ah40	8860G-45Ah40	
Nominal capacity (discharged with standard profile <1C) ± 5%	4,00	20,0	4,50	Ah
Rated capacity (discharging 50% max current till cut-off voltage)	3,60		4,05	Ah
Nominal energy (discharged with standard profile <1C)	13,8	77,0	16,5	Wh
Rated energy (discharging 50% max. current till cut-off voltage)	12,4	69,3	14,9	Wh
Nominal voltage	4,00	4,00	4,00	V
Max. recommended charging voltage	4,20	4,20	4,20	V
Max. float charging voltage **	4,10	4,10	4,10	V
Recommended cut-off voltage @ 1C	2,70	2,70	2,70	V
C Rating charging	1,25	2,1	1,5	C
C Rating discharging	1,25	3	1,5	C
Max. continuous discharging current	5	60	6	A
Max. sustained power capability	20,0	240	31,0	W
Equivalent max. resistance	20	1,5	3	mΩ
Dimensions L x W xH mm	23,6 x 23,6 x 68	221 x 7,5 x 142	88 x 60 x 9,3	mm
Recommended transportation voltage	3,50	3,50	3,50	V
Recommended storage voltage	3,50	3,50	3,50	V
Operating temperature	-30 to +70	-20 to +55	-30 to +70	°C
Storage temperature	-20 to +45	-20 to +45	-20 to +45	°C
Gravimetric energy density (cells)	197	220	183	Wh/kg
Volumetric energy density (cells)	464	327	336	Wh/dm^3
Cycles life at 25°C	> 10000 cycles	> 20000 cycles	> 20000 cycles	cycles
Retained energy after 28 days at 25°C	92		92	%
Short circuit temperature	< 150		< 150	°C
Guarantee period (manufacturing)	12	12	12	months
Thermal heat at nominal current	0,320	0,600	0,061	W
Weight of cells	70	350	90	g
Fire Hazardous substances: Cells do not pose a fire or explosion risk.				

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