Carbon-based Power Capacitor Specifications

Cell type	21700Y-19Ah40	21700Y-22Ah40	21700Y-25Ah40	
Nominal capacity (discharged with standard profile <1C) ± 5%	1,90	2,20	2,50	Ah
Rated capacity (discharging 50% max current till cut-off voltage)	1,70	2,00	2,30	Ah
Nominal energy (discharged with standard profile <1C)	6,50	8,00	9,10	Wh
Rated energy (discharging 50% max. current till cut-off voltage)	5,90	7,26	8,26	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	2,50	2,50	2,50	V
C Rating charging	10	10	10	C
C Rating discharging	10	10	10	C
Max. continuous discharging current	19	22	25	A
Max. sustained power capability	76,0	88,0	100	W
Equivalent max. resistance	12	10	8	mΩ
Dimensions L x W xH mm	21,7 x 21,7 x 70	21,7 x 21,7 x 70	21,7 x 21,7 x 70	mm
Recommended transportation voltage	3,50	3,50	3,50	V
Recommended storage voltage	4,00	4,00	4,00	V
Operating temperature	-35 to +80	-35 to +80	-35 to +80	°C
Storage temperature	-20 to +45	-20 to +45	-20 to +45	°C
Gravimetric energy density (cells)	110	129	140	Wh/kg
Volumetric energy density (cells)	251	309	352	Wh/dm^3
Cycles life at 25°C	> 20000 cycles	> 20000 cycles	> 20000 cycles	cycles
Retained energy after 28 days at 25°C	92	92	92	%
Short circuit temperature	< 150	< 150	< 150	°C
Guarantee period (manufacturing)	12	12	12	months
Thermal heat at nominal current	0,043	0,048	0,050	W
Weight of cells	59	62	65	g
Fire Hazardous substances: Cells do not pose a fire or explosion risk.				

✅