

## Carbon-based Power Capacitors PRELIMINARY Specification

Cell type : 16040Y-185Ah40

Parameters	Values	Unit
Nominal capacity	19,50	Ah
Rated capacity	18,00	Ah
Maximum voltage	4.2	V
Cut-off voltage	2,5	V
DC internal resistance (10ms)	≤ 0.25	mOhm
Nominal charging current	≤ 54A (3C)	A
Recommend max. charging current	≤ 180A (10C)	A
Recommend max. discharge current	≤ 180A (10C)	A
Maximum continuous discharge current	≤ 540A (30C)	A
Maximum pulse current	≤ 2200	A
Maximum temperature rise	55 ±5	°C
Charge discharge temperature range	-40 +85	°C
Storage temperature range	-40 +55	°C
Fast charging cycle life (@ 25 ± 2 °C)	≥ 8000 (@10C)	cycles
Slow charging cycle life	≥ 10000 (@1C)	cycles
Weight	880	g
Dimension (diameter d) × Height (H)	Φ60mm × 140mm	mm
Volume	26,4	dm <sup>3</sup>
Nominal energy	78,0	Wh
Rated energy	72,0	Wh
Nominal Energy density (gravimetric)	88,6	Wh/kg
Nominal energy density (volumetric)	29572,3	Wh/dm <sup>3</sup>
Nominal Power density (continuous)	818,2	W/kg
Peak Power density (continuous)	2454,5	W/kg
Pulse power density	10000,0	W/kg

Guarantee period (manufacturing)

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