

Carbon-based Power Capacitor Specifications



| | 18500T-010-32 | |
|---|--------------------------|--------------------|
| Nominal capacity (discharged with standard profile <1C) \pm 5% | 1,00 | Ah |
| Nominal energy (discharging @1C till cut-off) | 3,20 | Wh |
| Nominal voltage | 3,20 | V |
| Recommended cut-off voltage @ 1C | 2,50 | V |
| Max. recommended charging voltage ** | 3,40 | V |
| Rated capacity (discharging 50% max current till cut-off voltage) | 0,950 | Ah |
| Rated energy (discharged 50% max. current until the cut-off voltage) (cell) | 3,00 | Wh |
| Max. C-rate charging *** (cell) | 3 | C |
| Max. C-rate discharging *** (cell) | 10 | C |
| Max. continuous charging current *** (cell) | 3,00 | A |
| Max. continuous discharging current *** (cell) | 10,0 | A |
| Max. sustained power capability *** (cell) | 4 | W |
| Ohmic Resistance Ri (@50% SoC) | \leq 40 | m Ω |
| Gravimetric energy density (cells) (@1C) | 107 | Wh/kg |
| Volumetric energy density (cells) (@1C) | 231 | Wh/dm ³ |
| Gravimetric power density (cells) @ max. C-rate | 1.067 | W/kg |
| Cycles life at 25°C | > 10.000 | cycles |
| Dimensions of cell | 18,6 \varnothing x 51H | mm |
| Recommended transportation voltage | 3,10 | V |
| Recommended storage voltage | 3,10 | V |
| Operation temperature | -20 to +70 | °C |
| Storage temperature | -5 to +35 | °C |
| Retained energy after 28 days at 25°C | 95 | % |
| Short circuit temperature | < 150 | °C |
| Weight of cells | 30 | g |
| Guarantee period (manufacturing) | 12 | months |
| Fire Hazardous substances: Cells do not pose a fire or explosion risk. | | |



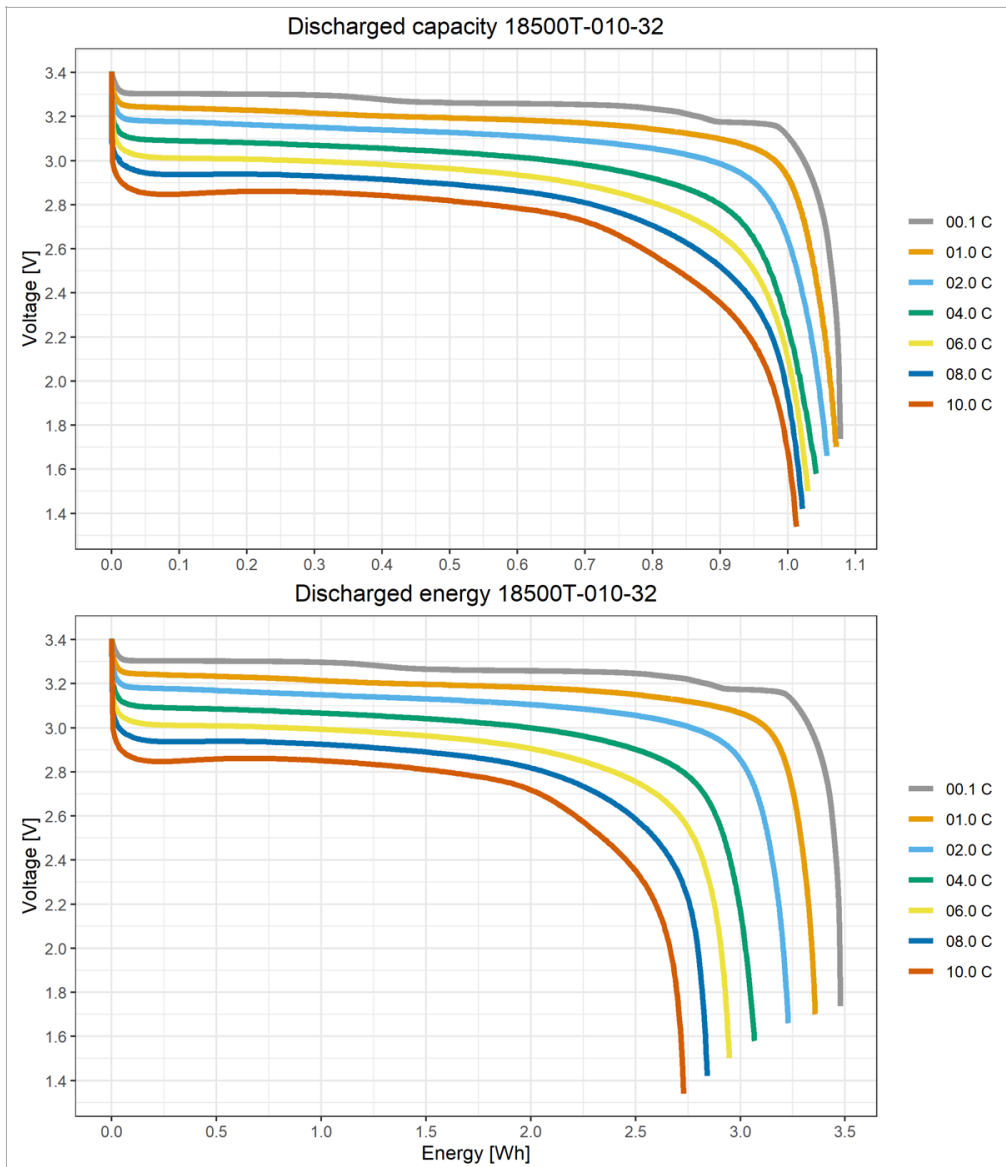
* Custom designed. Specifications might deviate.

** 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.

Graphs as tested on a specific cell



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