

|   |           | Conditions |  | Diagrams                       |
|---|-----------|------------|--|--------------------------------|
| <b>cell type:</b>   |           | NiMH       |  | <b>standard charge</b><br>     |
| <b>cell size:</b>   |           | Sub-C      |  |                                |
| <b>nominal voltage:</b>                                   | 1.2       | V          | at standard charge<br>(0.1C / 20°C)                | <b>fast charge</b><br>         |
| <b>max. charge voltage:</b>                               | 1.5       | V          |  |                                |
| <b>capacity</b>   |           |            |  | <b>low rate discharge</b><br>  |
| <b>nominal:</b>   | 3000      | mAh        | discharge at 0.2C                                  |                                |
| <b>minimum:</b>   | 2850      | mAh        | discharge at 0.2C                                  |                                |
|   | 2600      | mAh        | discharge at 1C                                    | <b>high rate discharge</b><br> |
|   |           |            | 1.0V end discharge voltage<br>ta: 20°C             |                                |
| <b>max. continuous discharge current:</b>                 | 15        | A          | ta: 0...45°C                                       |                                |
| <b>max. peak current:</b>                                 | 30        | A          |  |                                |
| <b>charge</b>   |           | current    | time   |                                |
| <b>standard charge:</b>                                   | 300       | mA         | 14...16hrs   |                                |
| <b>quick charge:</b>                                      | 850       | mA         | 4hrs   |                                |
| <b>fast charge:</b>                                       | 3000      | mA         | 1.1hrs   |                                |
| <b>recommended charge termination control parameters:</b> | 0...5     | mV         | - delta V  |                                |
|   | 0.8...1   | °C         | temperature rise per minute                        |                                |
|   | 45...50   | °C         | TCO (temperature cut off)                          |                                |
| <b>trickle charge current:</b>                            | 30...150  | mA         | (recommended)                                      |                                |
| <b>continuous overcharge: (less than 1 year)</b>          | ≤ 300     | mA         | no conspicuous deformation<br>no leakage           |                                |
| <b>internal resistance: (impedance)</b>                   | ≤ 6       | mΩ         | at 1KHz<br>battery fully charged                   |                                |
| <b>life expectancy:</b>                                   | ≥ 500     | cycles     | acc. IEC standard                                  |                                |
| <b>self discharge</b>                                     |           |            |  |                                |
| <b>charge retention: (at ≤ 20°C ambient)</b>              | ≥ 80      | %          | after 6 months storage                             |                                |
|   | ≥ 75      | %          | after 12 months storage                            |                                |
| <b>initial capacity:</b>                                  | ≥ 2100    | mAh        | within 30 days after delivery<br>discharge at 0.2C |                                |
| <b>ambient temperature range:</b>                         | 0...45    | °C         | standard charge                                    |                                |
|   | 10...40   | °C         | fast charge  |                                |
|   | - 20...55 | °C         | discharge  |                                |
|   | - 20...55 | °C         | storage (≤1months)                                 |                                |
|   | - 20...45 | °C         | storage (≤3months)                                 |                                |
|   | - 20...35 | °C         | storage (≤12months)                                |                                |
| <b>QCT1:</b>  | 20/2700/6 |            |  |                                |
| <b>QCT2:</b>  | 30/2550/8 |            |  |                                |
| <b>mechanical specifications</b>                          |           |            |  |                                |
| <b>cell dimensions (incl. label)</b>                      |           |            |  |                                |
| <b>diameter d1:</b>                                       | 22.5      | - 1.0      | mm   |                                |
| <b>diameter d2:</b>                                       | 10.0      | ± 1.0      | mm   |                                |
| <b>height h1:</b>   | 43.0      | - 1.0      | mm   |                                |
| <b>height h2:</b>   | min. 0.3  |            | mm   |                                |
| <b>weight:</b>  | 55        | ± 5        | g  |                                |
|   |           |            |  |                                |

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**ANSMANN Specifications for model:**

data sheet no. / part no.

**SubC - 3000mAh low self discharge bulk package**

2310-3004

supplier no.

701344

author / date

TG / 11.03.2016