

**cell type:** Li-Ion  
**cell size:** 18650  
**built-in cell:** Samsung ICR 18650-26J / ICR 18650-26JM (3.63V / 2600mAh)

#### Conditions

**nominal voltage:** 3.6 V

#### capacity

nominal: 2600 mAh discharge at 0.2C  
 minimum: 2500 mAh discharge at 0.2C  
 2400 mAh discharge at 1C  
 ta: 20°C; EV(Discharge End Voltage): 2.75V

#### discharge

max. continuous discharge current: 5000 mA ta: 0...45°C  
**important:** avoid cell temperature above 60°C  
 discharge end voltage:  $\geq 2.75$  V (recommended)

#### external charge (at +/- poles)

charging method: CC - CV (Constant Current - Constant Voltage)

charge current: 520 mA at standard charge  
 max. charge current: 2600 mA at fast charge

charge end voltage: 4.2 V  $\pm 50$ mV

#### charge cut off

by time: 5...6 h at standard charge  
 1.5...2.0 h at fast charge  
 by current drop: 50 mA end current - cut off

#### charge via micro USB connector (with USB charger)

supply voltage: 5 V  $\pm 0.25$ V  
 charge current:  $\leq 1150$  mA  
 charge time:  $\leq 3$  h at 1A charge

**internal resistance:**  $\leq 100$  m $\Omega$  at 1kHz, sine wave measurement according to IEC 896-2

energy: 9.36 Wh

#### protection functions

overcharge cut off voltage: 4.3 V  $\pm 0.05$ V  
 deep disch.cut off voltage: 2.5 V  $\pm 0.1$ V  
 overload cut off current: 12 A max.

#### LED charge indicator

(w. micro USB charge) lights red during charge  
 lights green end of charge; battery fully charged

#### life time expectance

(C>70% of min. capacity)  $\geq 300$  cycles at 0.5C charge/discharge rate

#### self discharge:

$\leq 2$  %/month at 20°C  
 $\leq 5$  %/month at 30°C  
 $\leq 10$  %/month at 40°C

#### ambient temperature range:

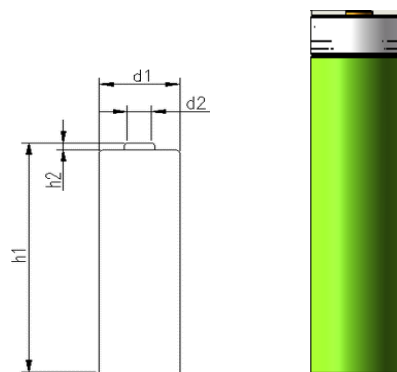
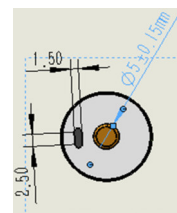
0...45 °C charge  
 - 20...60 °C discharge  
 - 20...25 °C storage max. 1year  
 - 20...45 °C storage max. 3months

recommended SOC: 30...50 %  
 (SOC = state of charge) for long-time stoarge

#### mechanical specifications

cell dimensions (incl. sleeve)

diameter d1: 18.5  $\pm$  0.3 mm  
 diameter d2: 5  $\pm$  0.15 mm  
 height h1: 70.0  $\pm$  2 mm  
 height h2: 0.5  $\pm$  0.3 mm  
 weight: 47.5  $\pm$  3 g



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|-------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|
|  | <b>ANSMANN Specifications for model:</b> | <b>Protected 18650 Li-Ion Battery</b>   |
|                                                                                     | data sheet no. / part no.                | <b>3.6V 2600mAh w. Micro USB Charge</b> |
|                                                                                     | supplier no.                             | 704507                                  |
|                                                                                     | author / date                            | TG / 04.11.2019                         |

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice