Li-lon cell type: 18650 cell size:

built-in cell: Samsung ICR 18650-26J / ICR 18650-26JM (3.63V / 2600mAh)

Conditions

nominal voltage: 3.6 V

capacity

2600 mAh nominal: 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

5000 mA discharge current: ta: 0....45°C

important: avoid cell temperature above 60°C

≥ 2.75 V discharge end voltage: (recommended)

external charge (at +/ - poles)

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

charge current: 520 mA at standard charge 2600 mA max. charge current: at fast charge 4.2 V charge end voltage: ± 50mV

charge cut off

5...6 h at standard charge by time: 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) 5 V ± 0.25V supply voltage:

≤ 1150 mA charge current:

charge time: ≤ 3 h at 1A charge

internal resistance: ≤ 100 mΩ at 1kHz, sine wave measurement

according to IEC 896-2

energy: 9.36 Wh

protection functions

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

LED charge indicator lights red during charge

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

life time expectance

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

self discharge: ≤ 2 %/month at 20°C at 30°C ≤ 5 %/month

at 40°C ≤ 10 %/month

ambient temperature

0...45 °C range: charge - 20...60 °C discharge

- 20...25 °C storage max. 1year - 20...45 °C storage max. 3months

ANSMANN Specifications for model:

data sheet no. / part no.

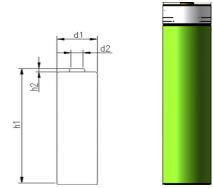
recommended SOC: 30...50 % for long-time stoarge

(SOC = state of charge)

mechanical specifications

cell dimensions (incl. sleeve)

diameter d1: 18.5 ± 0.3 mm diameter d2: 5 ± 0.15 mm height h1: 70.0 - 2mm height h2: 0.5 + 0.3mm weight: 47.5 ± 3 g



Protected 18650 Li-Ion Battery 3.6V 2600mAh w. Micro USB Charge

supplier no. 704507 TG / 04.11.2019 author / date

