



**Produktinformation/Product Information**  
**Änderungsmitteilung**  
**Information on Product Change**

**FO-7.312**  
ÄI 20111108/RG  
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**Betrifft/Reference**

**Battery tools**

**Nr./No.:**

**Deep sleep for lithium-ion batteries**

- Interne Information**  
 GF    TAT    TBL    VKI  
 VKA    TFG    TFL    TQS  
 WLT    TFLT    TQST    TFGT  
 ADMs (über VKI)    VID  
 Auslandsvertretungen/Werke (über VKA)

**Kundeninformation**  
(Industriekunden über TAT)

**Kunden mit eigener Reparatur**  
(Inland: VDI / VKI; Ausland: VKA)

**Datum/Date**

10.04.2013

**Unterschrift/Signature**

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**1. Self-discharge**

For safety reasons all GESIPA lithium-ion batteries are equipped with a special protection circuit which prevents the battery to switch off as long as the last possible rivet setting cycle is not completed. This is to avoid stopping the tool with a rivet in the application while the mandrel is not taken. The safety device has a permanent consumption of 0.45 mAh and cannot be disabled. Since this would completely discharge the battery within 120 days, a deep sleep mode is also included in the electronics.

**2. Deep sleep**

The deep sleep starts after 21 days and reduces energy consumption to a minimum of 0.035 mAh. This consumption is so low that it would take "3.6 years" for the battery to self-discharge. Once the battery has gone into deep sleep it behaves as if it would be completely empty. The tool will not operate nor will the signal light function.

Before use, the battery needs to be released from deep sleep mode. Therefore it is necessary to put it into the charger for a few seconds. Afterwards it is reactivated and ready to use or to charge.