# Lithium-polymer

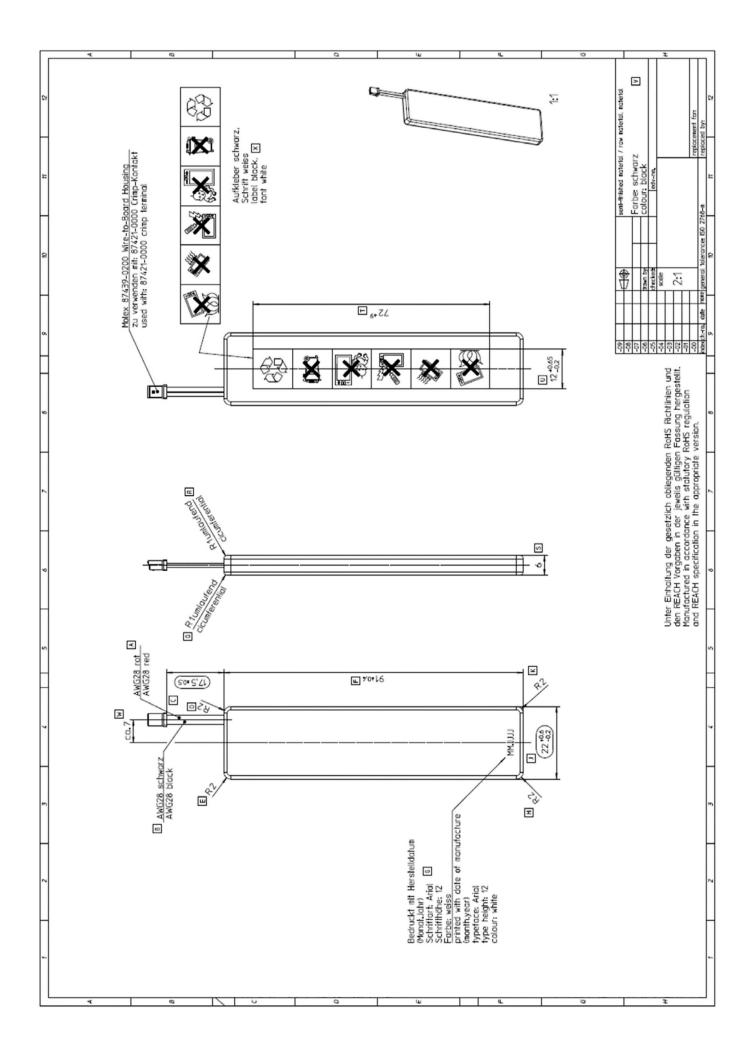
# rechargeable battery (accumulator) 486150100602

#### Electrical characteristics

	Parameter	Condition	TA	Min	Тур	Max	Unit
Un	Nominal voltage		25°		3,7		V
Qn	Nominal capacity	discharge 0,2 x Id <sub>max</sub>	25°	700	750		mAh
Ri	Impedance	f <sub>mess</sub> =1kHz	25°			180	mΩ
Ucp	Over charge protection voltage		25°	4,22	4,25	4,28	V
lc	Charge current	U < Ucp	25°		150	750	mA
Udc	Discharge cut-off voltage		25°			3,0	V
Udp	Over discharge protection voltage		25°	2,4	2,5	2,6	٧
Id	Discharge current		25°		150	750 (Peak 3000)	mA

# Performance characteristics

	Parameter	Condition	TA	Min	Тур	Max	Unit
tdc	Charge time	0,2 x lc <sub>max</sub>	- 25°		6	7	- h
		Ic max			3	4	
n	Load life cycles (Qn ≥ 80%)	charge 0,2 x Ic <sub>max</sub> to Ucp discharge	- 25°	300			cyl.
		0,2 x Id <sub>max</sub> to Udc					
	Capacity variation	discharge 0,2 x Id to Udc	-20°C	50			
			0,2 x ld	25°C		100	
			55°C	85			
	Self discharge	after 28 days	25°C			10	%



# Physical characteristics

	Parameter	Condition	TA	Min	Тур	Max	Unit
90	Operating temperature	charging		0		40	- °C
		discharging		-20		60	
9s	Storage temperature	< 1 month		-20		60	°C
		< 3 month		-20		45	
		< 1 year		-20		20	
φs	Storage humidity		025°C	35		85	%
m	Weight			18	20	22	g

# Mechanical characteristics

Parameter	Condition	Tol.	Min	Тур	Max	Unit
Length		+0,4 -0,4		91		mm
Height				6		mm
Width		+0,6 -0,2		22		mm
Cable length	without connector	+0,5 -0,5		17,5		mm

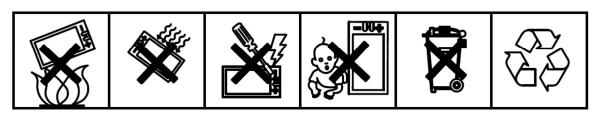
# Chemical characteristics

Component	Material
Chasis	ABS or PC, black (UL94 V-0)

# Connector characteristics

Component	Type	Condition	Parts
Cable	AWG28	Pin1: (+) red	1
Cable	AWG28	Pin2: (-) black	1
Housing	Molex	87439-0200	1
Terminal	Molex	87421-0000	2

## Warning label



#### Legal requirements

• RoHS 2011/65/EU Restriction of Hazardous Substances

• REACH (EG) Nr. 1907/2006 Declaration of e.g.: 1,2-Dimethoxyethan, 1,3-Propansulton

• DIN EN 62133-2:2015-02 → CB report

• IATA Lithium Battery Guidance Document - 2016 V2

#### **Expected documentation**

UN 3480 Dangerous goods indicator, Lithium Ionen Battery

CB report → DIN EN 62133

UN38.3 Report Lithium Battery Test Report
1.2M Report Lithium Drop Test Report
MSDS Report Material Safty Data Sheet

#### Expected battery delivery charge state

• Limited to a maximum of 0,3 x Qn

## **Expected protection**

- Over charge
- Over discharge
- Short protection