

# ATTENTION! Charging/discharging instructions:

The battery may only be charged using the NiMH-charger intended for this purpose. If you use your own NiMH-battery charger: Standard charge is 210 mA for 16 hours at 20°C. Extended charging will not lead to damage or overheating. Batteries may only be fast charged with a maximum charging current of 2100 mA. A time limit of 105% of the capacity is recommended for fast charging. BUT: This theoretical charging current is reduced drastically depending on the battery temperature: MAX. 45 degrees!

Do not discharge below 7 volts!

Adhere to the maximum recommended technical data from the data sheet below.

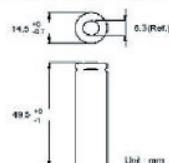
## Akkupacks

137104802 & 137103802

technical data : battery pack  
 cell type: : NiMH  
 cell size: : AA  
 nominal voltage: : 1.2V  
 max. charge voltage: : 14.5V  
 no. of cells : 10 cells

single cell dimension and type

Model No.: GP210AAH



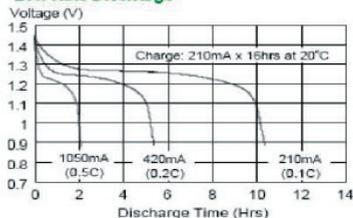
Flex Marking:

AWM 1007 20AWG VW-1 80°C 300V E214500  
 CSA AWM 20AWG I A FT1 80°C 300V LL210593

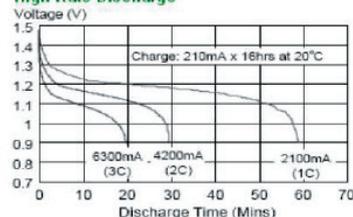
<b>Type</b>	Rechargeable Nickel Metal Hydride Cylindrical Cell
<b>Nominal Dimension (with Sleeve)</b>	Φ = 14.5mm H = 49.5mm
<b>Applications</b>	Recommended discharge current 210 to 6300mA
<b>Nominal Voltage</b>	1.2V
<b>Capacity</b>	Rated: 2100mAh Typical: 2150mAh When discharged at 420mA to 1.0V at 20°C
<b>Charging Retention</b>	80% of nominal capacity after cell storage at 20°C for 12 months When discharged at 420mA to 1.0V at 20°C
<b>Charging Condition</b>	210mA for 16 hrs at 20°C
<b>Fast Charge</b>	1050mA to 2100mA (0.5 to 1C) charge termination control recommended control parameters: -ΔV : 0-5mV DT/dt : 0.8°C/min (0.5 to 0.9C) 0.8 - 1°C/min (1C) TCO : 45 - 50°C Timer : 105% nominal input (for ref. only)
<b>Service Life</b>	>500 cycles (IEC standard)
<b>Continuous Overcharge</b>	210mA maximum current for 1 year. No conspicuous deformation and/or leakage
<b>Weight</b>	29.5g
<b>Internal Resistance</b>	Average 24mΩ upon fully charged (Max.28mΩ) at 1000Hz
<b>Max. Charging Voltage</b>	1.5V at 210mA charging
<b>Ambient Temperature Range</b>	Standard Charge : 0 to 45°C Fast Charging : 10 to 45°C Discharge : -20 to 50°C Storage : -20 to 35°C

IP ratings: : IPx4  
 weight : approx. 300g

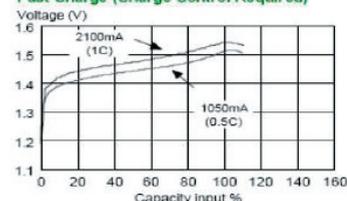
### Low Rate Discharge



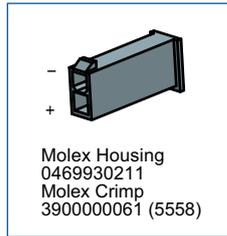
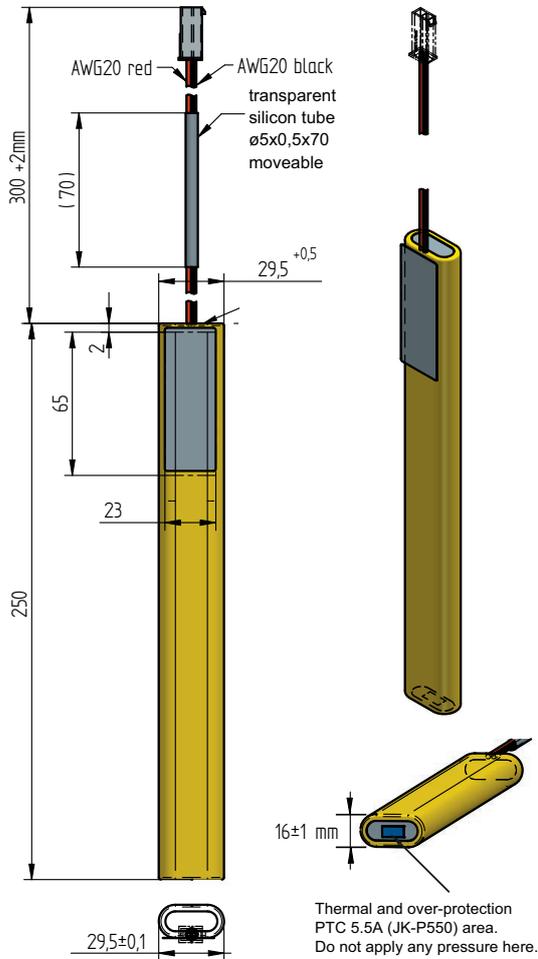
### High Rate Discharge



### Fast Charge (Charge Control Required)



## 2 x 5 cell pack (item no. 137104802)



## 1 x 10 cell pack (item no. 137103802)

