

# EMMERICH

## Specification for Sealed Rechargeable Nickel Metal Hydride Battery

**Model:** EMMERICH NIMH AKKU AAA 650 MAH FT-1Z (255012)

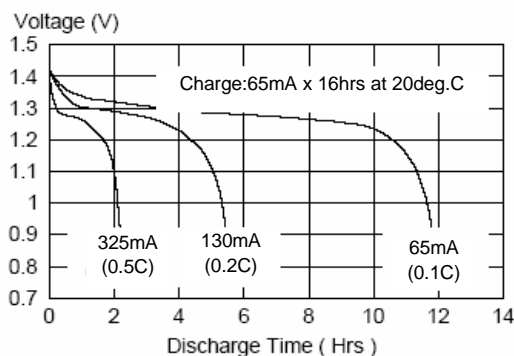
<b>Chemical System:</b>	Nickel Metal Hydride	Ni-MH			
<b>Type</b>	AAA	Flat Top			
<b>Nominal Voltage</b>	Standard	1,2 V			
<b>Nominal Capacity</b>	Low Rate - 0.1C	650 mAh			
<b>Weight</b>		11,5 g			
<b>Capacity</b>		<b>Charge</b>	<b>Discharge</b>	<b>Minimum</b>	<b>Typical</b>
	Low Rate - 0.1C	0.1C	0.2C	650 mAh	680 mAh
	High Rate - 1C	0.1C	1C	572 mAh	600 mAh
<b>Charging</b>		<b>Standard</b>	<b>Quick*</b>	<b>Fast*</b>	
	<b>Minimum Charge</b>	65 mA (0.1C)	65 mA (0.1C)	65 mA (0.1C)	
	<b>Time Required (hrs)</b>	16 hrs	16 hrs	16 hrs	
	<b>Maximum Charge</b>	130 mA (0.2C)	330 mA (0.5C)	650 mA (1C)	
	<b>Time Required (hrs)</b>	< 8 hrs	< 2.2 hrs	< 66 min (or - Delta V)	
	<b>Minimum Overcharge</b>	65 mA (0.1C)			
	<b>Maximum Overcharge</b>	1300 mA with cut-off control			
<b>Maximum Discharge Current</b>	<b>Continuous</b>	1,95 A			
	<b>Momentary (1 second )</b>	6,5 A			
<b>Internal Impedance</b>	<b>Typical at 1000Hz</b>	40 milliohms upon fully charged			
<b>Temperature</b>		<b>Storage for &lt; 1 Month (deg.C)</b>		<b>Storage for &lt; 1 Year (deg.C)</b>	
	<b>Minimum</b>	-20		-10	
	<b>Maximum</b>	40		30	
		<b>Discharge (deg.C)</b>		<b>Charge (deg.C)</b>	
	<b>Minimum</b>	-20		0	
	<b>Maximum</b>	50		45	
<b>Service Life</b>	<b>Standard (IEC61951-2)</b>	upto 500 cycles (for reference)			
<b>Designations</b>	<b>IEC 61951-2</b>				

\* Quick and Fast charge require cut-off control circuitry to terminate charge or switch to trickle charge when cell reaches full charge

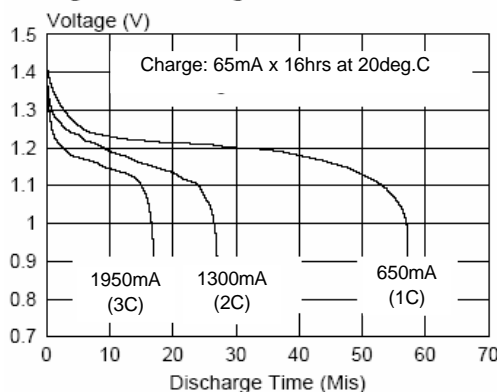
Remark: The information contained herein is presented only as a guide for the applications of our products

Data in this specification are subjected to change without notice and become contractual only after written confirmation by Emmerich.

### Low rate discharge



### High Rate Discharge



Dimensions (mm)		
D	10,0	± 0.5
C	4,7	± 0.3
H	43,0	± 0.5
H1	0,3	(REF)

