

# EMMERICH

## Specification for Sealed Rechargeable Nickel Metal Hydride Battery

**Model:** EMMERICH NIMH AKKU AA 2500 MAH FT-1Z (255029)

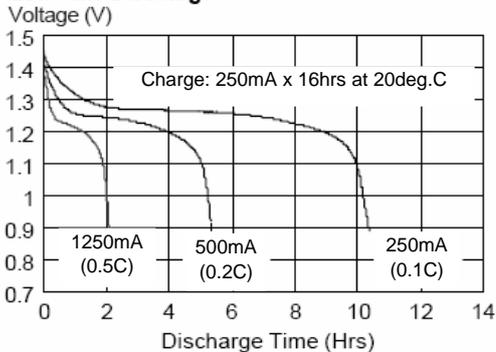
<b>Chemical System:</b>	Nickel Metal Hydride	Ni-MH			
<b>Type</b>	AA	Flat Top			
<b>Nominal Voltage</b>	Enhanced Capacity	1,2 V			
<b>Nominal Capacity</b>	Low Rate - 0.1C	2500 mAh			
<b>Weight</b>		30 g			
<b>Capacity</b>		<b>Charge</b>	<b>Discharge</b>	<b>Minimum</b>	<b>Typical</b>
	Low Rate - 0.1C	0.1C	0.2C	2250 mAh	2360 mAh
	High Rate - 1C	0.1C	1C	1980 mAh	2070 mAh
<b>Charging</b>		<b>Standard</b>	<b>Quick*</b>	<b>Fast*</b>	
	<b>Minimum Charge</b>	250 mA (0.1C)	250 mA (0.1C)	250 mA (0.1C)	
	<b>Time Required (hrs)</b>	16 hrs	16 hrs	16 hrs	
	<b>Maximum Charge</b>	500 mA (0.2C)	1250 mA (0.5C)	2500 mA (1C)	
	<b>Time Required (hrs)</b>	< 8 hrs	< 2.0 hrs	< 60 min (or - Delta V)	
	<b>Minimum Overcharge</b>	250 mA (0.1C)			
	<b>Maximum Overcharge</b>	5000 mA with cut-off control			
<b>Maximum Discharge Current</b>	<b>Continuous</b>	7,5 A			
	<b>Momentary (1 second )</b>	25 A			
<b>Internal Impedance</b>	Typical at 1000Hz	30 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

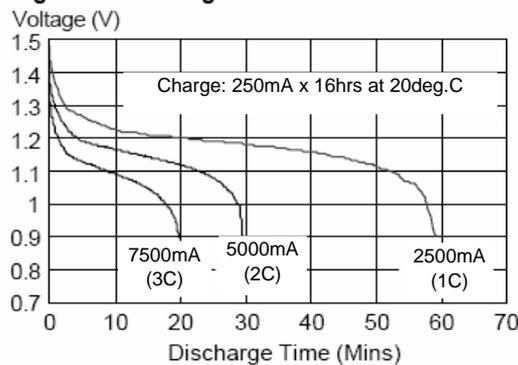
Remark: The information contained herein is presented only as a guide for the applications of our products

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	14,0	± 0.5	
C	8,0	± 0.3	
H	49,0	± 0.5	
H1	0,3	(REF)	

