

# EMMERICH

## Specification for Sealed Rechargeable Nickel Metal Hydride Battery

**Model:** EMMERICH NIMH AKKU 4/5 A 1800 MAH FT-1Z (255000)

<b>Chemical System:</b>	Nickel Metal Hydride	Ni-MH			
<b>Type</b>	4/5A	Flat Top			
<b>Nominal Voltage</b>	Ultra Power	1,2 V			
<b>Nominal Capacity</b>	Low Rate - 0.1C	1800 mAh			
<b>Weight</b>		34 g			
<b>Capacity</b>		<b>Charge</b>	<b>Discharge</b>	<b>Minimum</b>	<b>Typical</b>
	<b>Low Rate - 0.1C</b>	0.1C	0.2C	1800 mAh	1850 mAh
	<b>High Rate - 1C</b>	0.1C	1C	1620 mAh	1670 mAh
<b>Charging</b>		<b>Standard</b>	<b>Quick*</b>	<b>Fast*</b>	
	<b>Minimum Charge</b>	180 mA (0.1C)	180 mA (0.1C)	180 mA (0.1C)	
	<b>Time Required (hrs)</b>	16 hrs	16 hrs	16 hrs	
	<b>Maximum Charge</b>	360 mA (0.2C)	900 mA (0.5C)	1800 mA (1C)	
	<b>Time Required (hrs)</b>	< 8 hrs	< 2.2 hrs	< 66 min (or - Delta V)	
	<b>Minimum Overcharge</b>	180 mA (0.1C)			
	<b>Maximum Overcharge</b>	3600 mA with cut-off control			
<b>Maximum Discharge Current</b>	<b>Continuous</b>	27 A			
	<b>Momentary (1 second )</b>	54 A			
<b>Internal Impedance</b>	<b>Typical at 1000Hz</b>	15 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>			

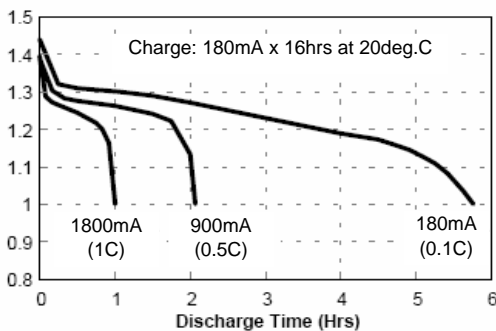
\* Quick and Fast charge require cut-off control circuitry to terminate charge or switch to trickle charge when cell reaches full charge

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.

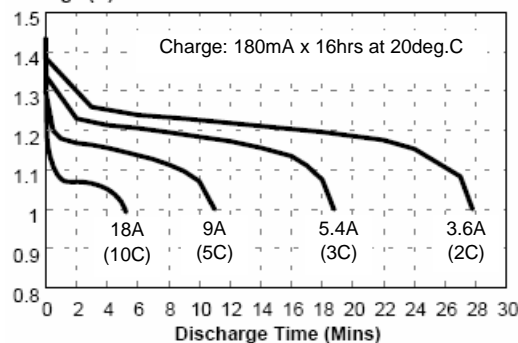
### Low Rate Discharge

Voltage (V)



### High Rate Discharge

Voltage (V)



Dimensions (mm)		
D	16,5	± 0.5
C	8,0	± 0.3
H	42,5	± 0.5
H1	0,3	(REF)

