

# EMMERICH

## Specification for Sealed Rechargeable Nickel Metal Hydride Battery

**Model:** EMMERICH NIMH AKKU F 13000 MAH FT-1Z (255048)

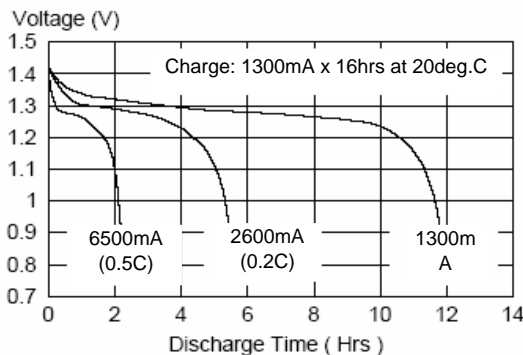
<b>Chemical System:</b>	Nickel Metal Hydride	Ni-MH			
<b>Type</b>	F	Flat Top			
<b>Nominal Voltage</b>	Enhanced Capacity	1,2 V			
<b>Nominal Capacity</b>	Low Rate - 0.1C	13000 mAh			
<b>Weight</b>		245 g			
<b>Capacity</b>	<b>Charge</b>	<b>Discharge</b>	<b>Minimum</b>	<b>Typical</b>	
	Low Rate - 0.1C	0.1C	0.2C	12500 mAh	12880 mAh
	High Rate - 1C	0.1C	1C	11000 mAh	11500 mAh
<b>Charging</b>	<b>Standard</b>	<b>Quick*</b>	<b>Fast*</b>		
	Minimum Charge	1300 mA (0.1C)	1300 mA (0.1C)	1300 mA (0.1C)	
	Time Required (hrs)	16 hrs	16 hrs	16 hrs	
	Maximum Charge	2600 mA (0.2C)	6500 mA (0.5C)	13000 mA (1C)	
	Time Required (hrs)	< 8 hrs	< 2.0 hrs	< 60 min (or - Delta V)	
	Minimum Overcharge	1300 mA (0.1C)			
	Maximum Overcharge	26000 mA with cut-off control			
<b>Maximum Discharge Current</b>	Continuous	65 A			
	Momentary (1 second)	195 A			
<b>Internal Impedance</b>	Typical at 1000Hz	8 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>			
	Minimum	-20	-10		
	Maximum	40	30		
	<b>Discharge (deg.C)</b>	<b>Charge (deg.C)</b>			
	Minimum	-20	0		
	Maximum	50	45		
<b>Service Life</b>	Standard (IEC61951-2)	upto 500 cycles (for reference)			
<b>Designations</b>	IEC 61951-2				

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

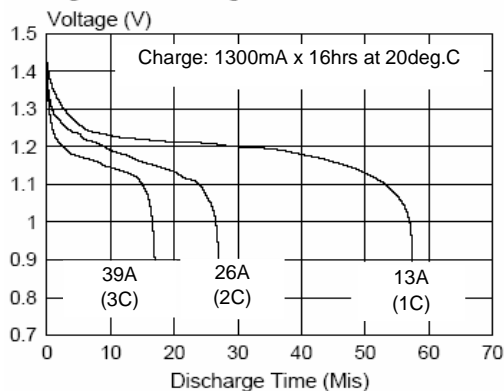
Remark: The information contained herein is presented only as a guide for the applications of our products

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	32,5	± 0.5
C	10,0	± 0.3
H	89,5	± 0.5
H1	0,3	(REF)

