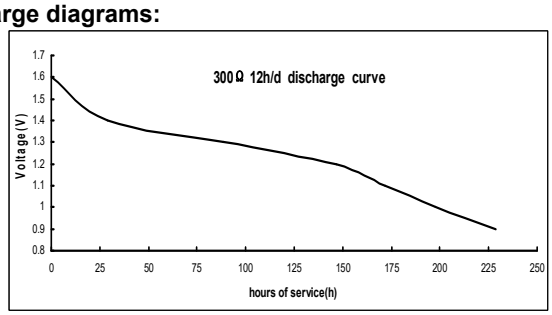
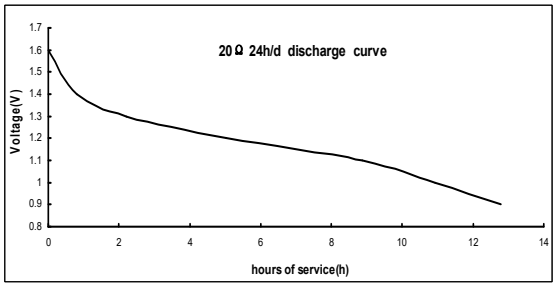
battery type:		Alkaline Manganese Dioxide (mercury free)
battery size:		IEC: LR1; JIS: AM-5; ANSI: N; Lady
chemical system:		Zn / KOH-H_2O / MnO_2
		Conditions
nominal voltage:	1.5 V	
open circuit voltage:	1.56… 1.63 V	new battery
	1.54… 1.63 V	after 1 year storage at 20°C
		all measurements at 22 ± 2°C ambient
capacity		
rated:	940 mAh	discharge under 300Ω load; 12hours/day End Voltage (E.V.): 0.9V
minimum:	750 mAh	at 5mA constant current discharge; E.V.: 0.8V (for QC measurement)
	550 mAh	at 60mA constant current discharge; E.V.: 0.8V

typical service output

new battery:	norm.	12.5 h	at 20Ω load; discharge 24h/d; E.V.: 0.9V
	min.	10.5 h	
after 1 year storage:	norm.	10.0 h	at 20Ω load; discharge 24h/d; E.V.: 0.9V
	min.	8.5 h	
new battery:	norm.	140 min	at 5.1Ω load; discharge 5min/d; E.V.: 0.9V
	min.	110 min	
after 1 year storage:	norm.	110 min	at 5.1Ω load; discharge 5min/d; E.V.: 0.9V
	min.	80 min	
new battery:	norm.	215 h	at 300Ω load; discharge 12h/d; E.V.: 0.9V
	min.	208 h	
after 1 year storage:	norm.	200 h	at 300Ω load; discharge 12h/d; E.V.: 0.9V
	min.	185 h	

Discharge diagrams:





internal resistance:	≤ 0.3 Ω	at 1kHz, sine wave measurement according to IEC 896-2
shelf life:	5 years	under proper storage conditions (ta: ≤ 22°C; RH: 60 ± 15%)

leakage resistance

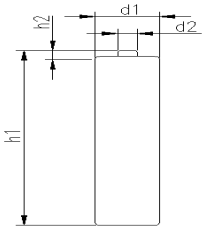
over discharge:	no leakage	20Ω continuous discharge for 48h; ta: 20°C; RH: 60±15%
high temperature:	no leakage	store 20days at ta: 60°C; RH:90±5%

operating temperature range: - 20...60 °C

mechanical specifications:

cell dimensions

diameter d1:	12.0	- 1.1	mm
diameter d2:	3.7	- 0.4	mm
height h1:	30.2	- 1.1	mm
height h2:	1.3	- 0.4	mm
weight:	9	± 1	g



ANSMANN	**ANSMANN Specifications for model:**	**Alkaline Battery LR1 (N, AM-5) "Hg free"**
	data sheet no. / part no.	
	s.n.	701381
	author / date	TG / 03.01.2020

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice