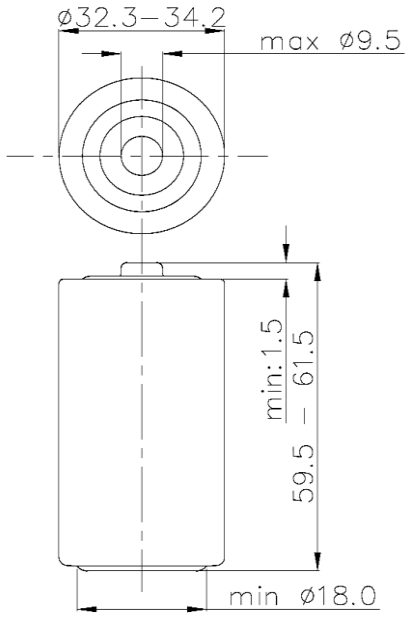
Alkaline Battery Zn-MnO_2

Primary characteristics		
Parameter	**Value**	**Unit**
Nominal voltage	1.5	V
Rated capacity	18500	mAh

Battery dimensions



Scope

The purpose of this product specification is to provide technical information for the alkaline Zn-MnO_2 battery LR20.
The test shall be conducted in strict accordance with the method specified in this specification.
If you have any objection to the test items or test methods, please contact Akyga Battery.

Specification table

Parameter	**Value**	**Unit**
Battery model	LR20	
Nominal voltage	1.5	V
Nominal capacity	18500	mAh
Electrochemical system	Zinc Powder, KOH, Electrolyte Manganese Dioxide No added mercury, cadmium and lead	
Operating temperature	-20/+60	°C
Average weight	140	g

Notes:
Nominal capacity test conditions: 25mA; end voltage: 0.8V; operating temperature: 20±-2℃

Electrical Performance:
Testing Conditions: Load resistance (±0.5%) 3.9Ω
Testing time ： 0.3 seconds
Temperature: 20±2℃）

	OVC [V]	**Load voltage [V]**	**Accepted Levels**
New battery (within 30 days of delivery)	≥1.61	≥1.5	MIL-STD105E, II, AQL=0.4
Storage after 12 months under the normal temperature	≥1.60	≥1.45	

Identification
The contents printed on the label:
Model: LR20
Registered Trademark: Akyga Battery
Nominal Voltage: 1.5V
Battery Poloidal: “+” and “-“
Warning words: Install and use correctly. Do not recharge, disassemble, heat and shot-circuit

Discharge Performance

Discharge condition			IEC Standard	Average minimum discharge time	
Discharge load	Daily discharge	End voltage (V)		Initial	After 12months under 20℃±2℃
3.9Ω	24h/d	0.9	----	37 h	35 h
2.2Ω	1h/d	08	16h	23h	21h
600mA	2h/d	0.9	10 h	16.5 h	14.9h
2.2Ω	24h/d	0.9	No Test	18 h	16.5h
10Ω	4h/d	0.9	81 h	120 h	113 h

Testing Conditions: Temperature: 20°C ±2°C
Relative Humidity: RH55+20/-40% RH

Important notes

Keep away from source of fire and/or heat.
Do not recharge the alkaline batteries. May leak or explode if charged.
Do not disassemble battery and/or battery pack.
Remove batteries from device when it is not in use. Over discharge may destroy the appliance
Do not connect the positive and negative pole directly using conductive metal; avoid short circuit.
Do not put the battery into water or damp it.
Do not cut the battery.
Do not strike or needle the battery.
Charge the battery using specified chargers.
Do not solder the battery directly.
Observe the correct polarity (+/-).
Do not use the battery in un-specified application.
Do not mix the battery in usage with other types of battery.
Read the instruction manual carefully before use.

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