

# DATASHEET

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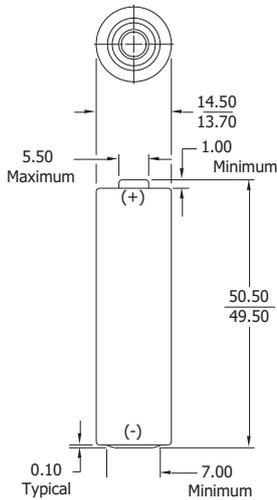
## AA / LR06 INDUSTRIAL PRO



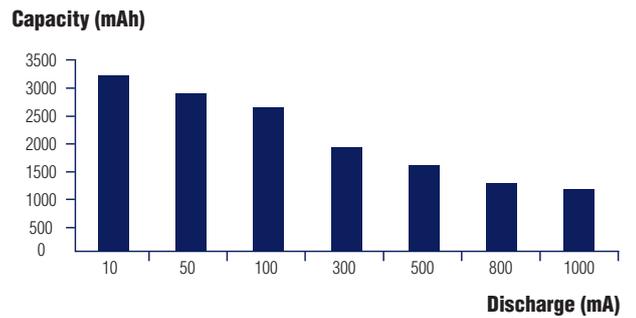
### SPECIFICATIONS

Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> ) No added mercury or cadmium
Designation:	ANSI-15A, IEC-LR6
Nominal Voltage:	1.5 volts
Operating Temp:	-18°C to 55°C (0°F to 130°F)
Typical Weight:	24.0 grams
Typical Volume:	8.1 cubic centimeters
Shelf Life:	10 years at 21°C
Terminal:	Flat Contact

### INDUSTRY STANDARD DIMENSIONS (MM)



### Continue discharge to 0.8 volts at 20± 2°C



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Motor/Toy	3.9Ω	1h/d	0.8	hour	8.12
Toy, non-motorized	250mA	1h/d	0.9	hour	8.42
Digital still camera	1.5W-2s/0.65W-28s	5m/1h, 24h/d	1.05	pulse	108.90
Photo flash	1000mA	10s/m, 1h/d	0.9	pulse	445.50
CD, digital audio, wireless gaming and accessories	100mA	1h/d	0.9	hour	25.25
Radio/Clock/Remote Control	50mA	1h/8h, 24h/d	1.0	hour	50.49
Portable Lighting(LED)	3.9Ω	4m/h, 8h/d	0.9	min	435.60
*	100mA	24h/d	0.9	hour	23.76

**Important Notice:** This datasheet contains typical information specific to products manufactured at the time of its publication.

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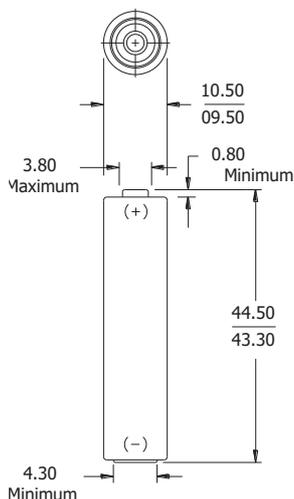
## AAA / LR03 INDUSTRIAL PRO



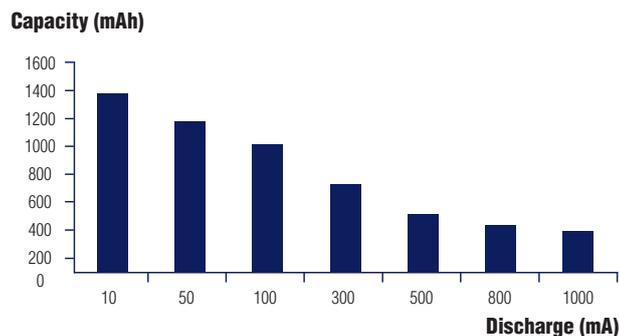
### SPECIFICATIONS

Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> ) No added mercury or cadmium
Designation:	ANSI-24A, IEC-LR3
Nominal Voltage:	1.5 volts
Operating Temp:	-18°C to 55°C (0°F to 130°F)
Typical Weight:	11.5 grams
Typical Volume:	3.8 cubic centimeters
Shelf Life:	10 years at 21°C
Terminal:	Flat Contact

### INDUSTRY STANDARD DIMENSIONS (MM)



### Continue discharge to 0.8 volts at 20± 2°C



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Portable lighting	5.1Ω	4m/h,8h/d	0.9	min	252
Remote control	24Ω	15s/m,8h/d	1.0	hour	21.78
Toy	5.1Ω	1h/d	0.8	min	267
Digital audio	50mA	1h/12h,24h/d	0.9	hour	23.265
Photo flash	600mA	10s/m,1h/d	0.9	pulse	347
*	100mA	24h/d	0.9	hour	9.405

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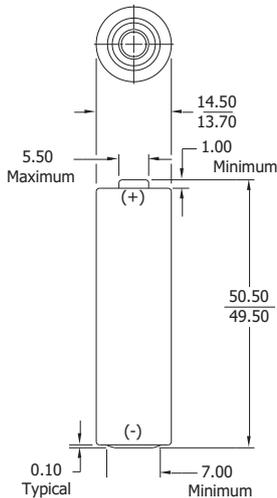
## AA / LR06 INDUSTRIAL

## SPECIFICATIONS



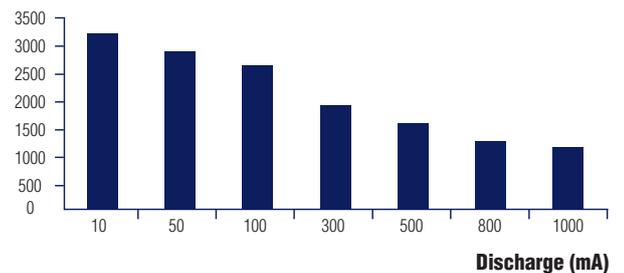
Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> ) No added mercury or cadmium
Designation:	ANSI-15A, IEC-LR6
Nominal Voltage:	1.5 volts
Operating Temp:	-18°C to 55°C (0°F to 130°F)
Typical Weight:	24.0 grams
Typical Volume:	8.1 cubic centimeters
Shelf Life:	7 years at 21°C
Terminal:	Flat Contact

### INDUSTRY STANDARD DIMENSIONS (MM)



### Continue discharge to 0.8 volts at 20± 2°C

#### Capacity (mAh)



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Motor/Toy	3.9Ω	1h/d	0.8	hour	7.425
Toy, non-motorized	250mA	1h/d	0.9	hour	7.722
Digital still camera	"1.5W-2s/ 0.65W-28s"	5m/1h, 24h/d	1.05	pulse	69
Photo flash	1000mA	10s/m, 1h/d	0.9	pulse	317
CD, digital audio, wireless gaming and accessories	100mA	1h/d	0.9	hour	22.77
Radio/Clock/Remote Control	50mA	1h/8h, 24h/d	1.0	hour	47.52
Portable Lighting(LED)	3.9Ω	4m/h, 8h/d	0.9	min	396
*	100mA	24h/d	0.9	hour	22.77

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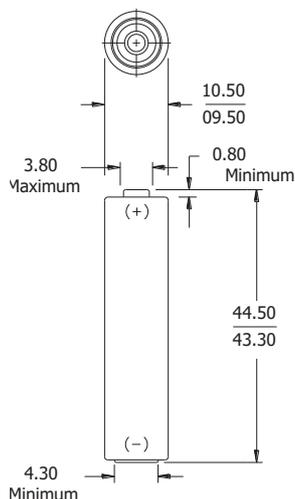
## AAA / LR03 INDUSTRIAL

## SPECIFICATIONS

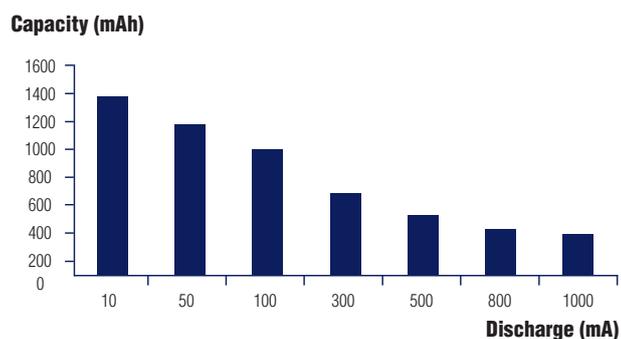
Classification: Alkaline  
 Chemical System: Zinc-Manganese Dioxide (Zn/MnO<sub>2</sub>)  
 No added mercury or cadmium  
 Designation: ANSI-24A, IEC-LR3  
 Nominal Voltage: 1.5 volts  
 Operating Temp: -18°C to 55°C (0°F to 130°F)  
 Typical Weight: 11.5 grams  
 Typical Volume: 3.8 cubic centimeters  
 Shelf Life: 7 years at 21°C  
 Terminal: Flat Contact



### INDUSTRY STANDARD DIMENSIONS (MM)



### Continue discharge to 0.8 volts at 20± 2°C



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Portable lighting	5.1Ω	4m/h,8h/d	0.9	min	228
Remote control	24Ω	15s/m,8h/d	1.0	hour	19.8
Toy	5.1Ω	1h/d	0.8	min	238
Digital audio	50mA	1h/12h,24h/d	0.9	hour	20.4
Photo flash	600mA	10s/m,1h/d	0.9	pulse	297
*	100mA	24h/d	0.9	hour	9.21

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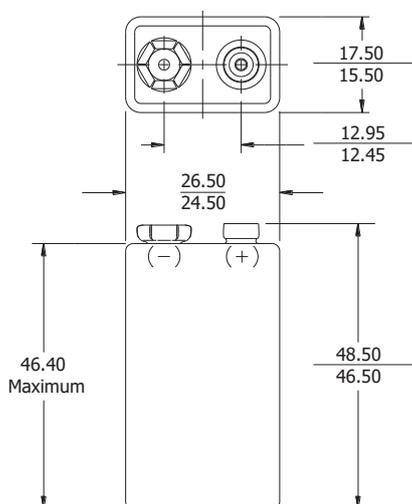
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# DATASHEET

## 9V / 6LR61 INDUSTRIAL



### INDUSTRY STANDARD DIMENSIONS (MM)



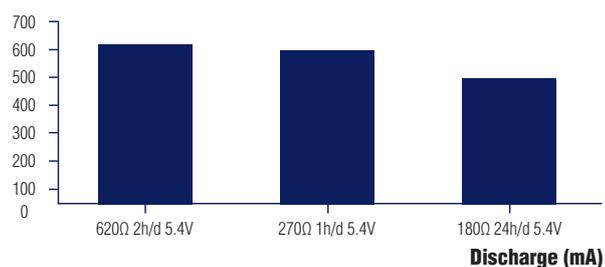
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## SPECIFICATIONS

Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> ) No added mercury or cadmium
Designation:	IEC-6LF22 ANSI-1604A
Nominal Voltage:	9.0 volts
Operating Temp:	-18°C to 55°C
Typical Weight:	45 grams
Typical Volume:	21.1 cubic centimeters
Shelf Life:	7 years at 21°C
Terminal:	Miniature Snap

### Continue discharge to 0.8 volts at 20± 2°C

#### Capacity (mAh)



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Clock radio	620Ω	2h/d	5.4	hour	39.6
Toy	270Ω	1h/d	5.4	hour	16.83
Smoke detector	10000Ω	24h	7.5	day	15.84
	620Ω	1s/h			
*	180Ω	24h	4.8	hour	10.89

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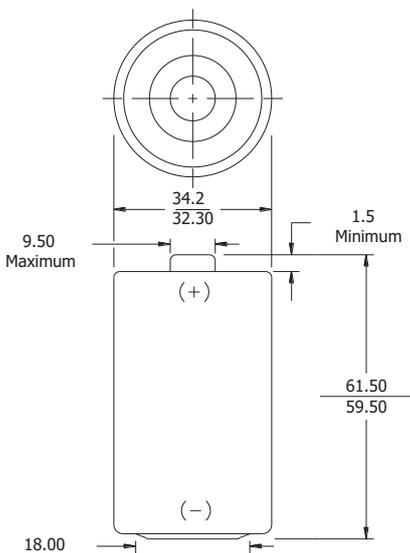
## D / LR20 INDUSTRIAL

## SPECIFICATIONS

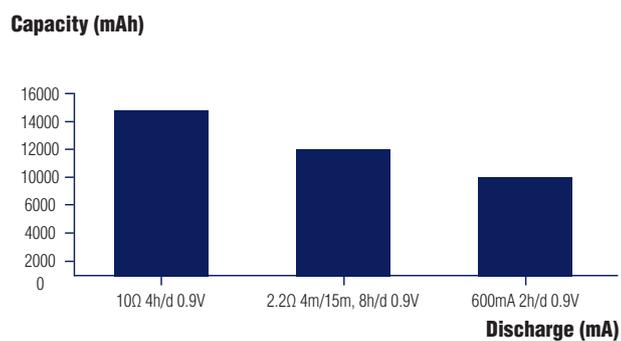
Classification: Alkaline  
 Chemical System: Zinc-Manganese Dioxide (Zn/MnO<sub>2</sub>)  
 No added mercury or cadmium  
 Designation: ANSI-13A, IEC-LR20  
 Nominal Voltage: 1.5 volts  
 Operating Temp: -18°C to 55°C  
 Typical Weight: 139 grams  
 Typical Volume: 56 cubic centimeters  
 Shelf Life: 7 years at 21°C  
 Terminal: Flat Contact



### INDUSTRY STANDARD DIMENSIONS (MM)



### Continue discharge to 0.8 volts at 20± 2°C



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Portable stereo	600mA	2h/d	0.9	hour	13.86
Toy	2.2Ω	1h/d	0.8	hour	21.78
Portable lighting	2.2Ω	4m/15m, 8h/d	0.9	hour	19.30

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# DATASHEET

## C / LR14 INDUSTRIAL

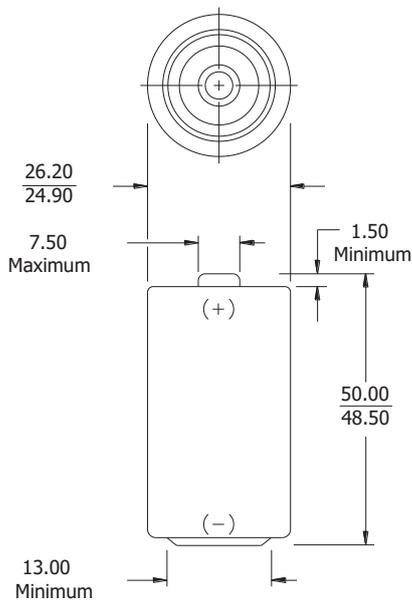


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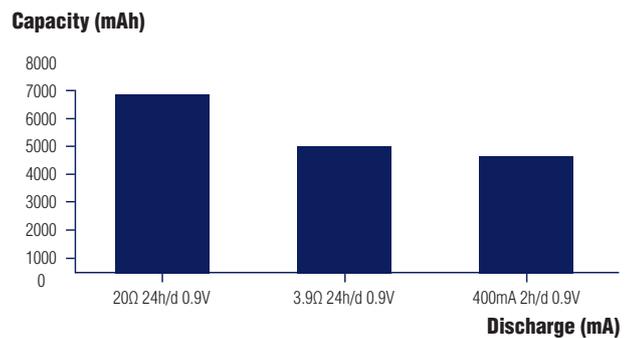
## SPECIFICATIONS

Classification:	Alkaline
Chemical System:	Zinc-Manganese Dioxide (Zn/MnO <sub>2</sub> ) No added mercury or cadmium
Designation:	ANSI-14A, IEC-LR14
Nominal Voltage:	1.5 volts
Operating Temp:	-18°C to 55°C
Typical Weight:	66.2 grams
Typical Volume:	26.9 cubic centimeters
Shelf Life:	7 years at 21°C
Terminal:	Flat Contact

### INDUSTRY STANDARD DIMENSIONS (MM)



### Continue discharge to 0.8 volts at 20± 2°C



### Industry Standard Tests (21°C)

Application	Load	Daily period	End voltage (V)	Unit	Normal
Portable stereo	400mA	2h/d	0.9	hour	9.9
Toy	3.9Ω	1h/d	0.8	hour	17.82
Portable lighting	3.9Ω	4m/15m, 8h/d	0.9	hour	17.32

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