

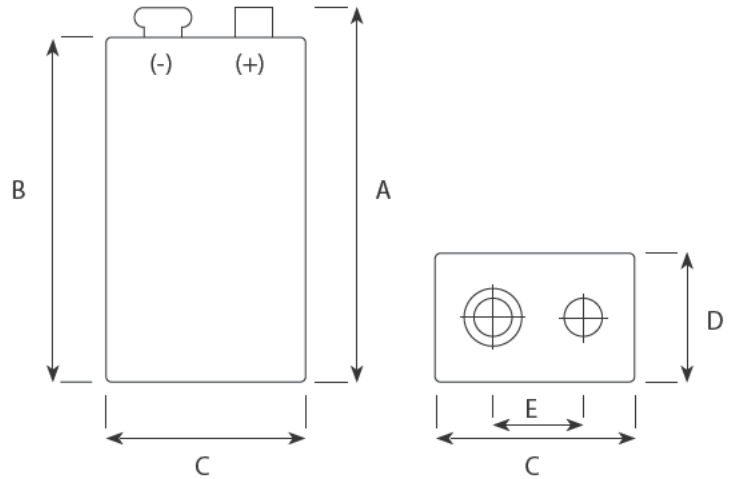
Product Datasheet

Alkaline

Powerline



6LR61AD



IEC Dimensions (mm)		
Dimension	Maximum	Minimum
A	48,5	46,5
B	46,4	—
C	26,5	24,5
D	17,5	15,5
E	12,95	12,45

Specifications

Name	9V / 6LR61 / 6AM6 / MN1604 / 1604A / 1604AC
Made in	Belgium
Type	Alkaline Foil
Nominal Voltage	9 Volt
Electrolyte	Potassium Hydroxide
Average weight	43 g
Storage temp. range	+10°C (50°F) ~ +25°C (77°F)
Operating temp. range	-20°C (-4°F) ~ +55°C (131°F)
Average Impedance	+/- 2,3 Ohm @ 1kHz fresh
Heavy metals	No added mercury (Hg), Cadmium (Cd) or Lead (Pb)
Compliant to	IEC 60086-1, IEC 60086-2, IEC 60086-5 non dangerous goods regulation EU directive 2006/66/EC Nordic Ecolabel
Recommended cut off voltage	5,4V per battery

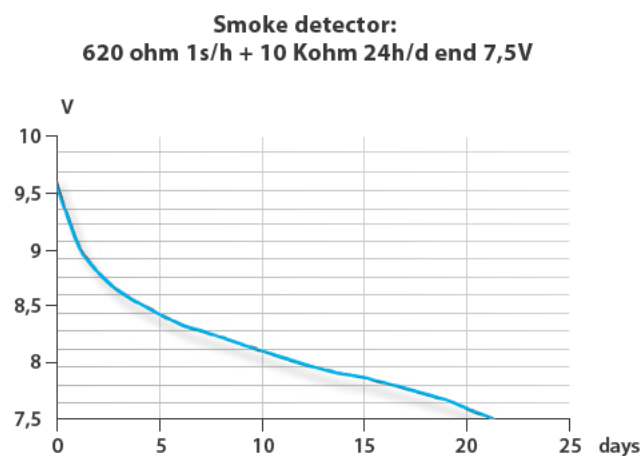
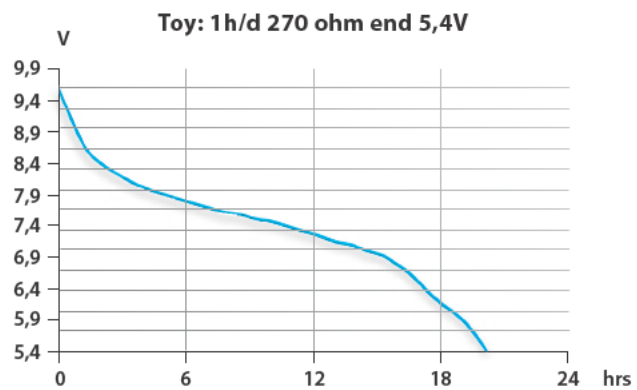
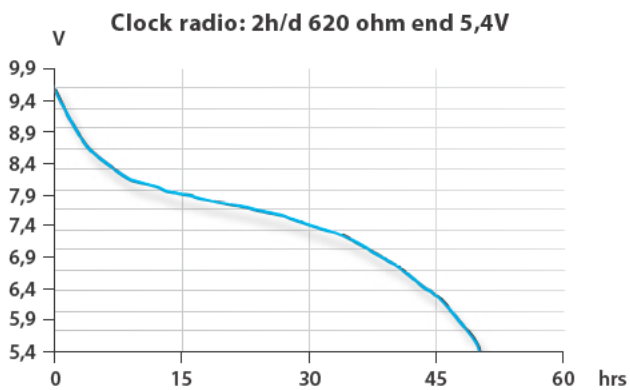
For more information:

www.panasonic-batteries.com

Panasonic

Typical discharge values

6LR61AD



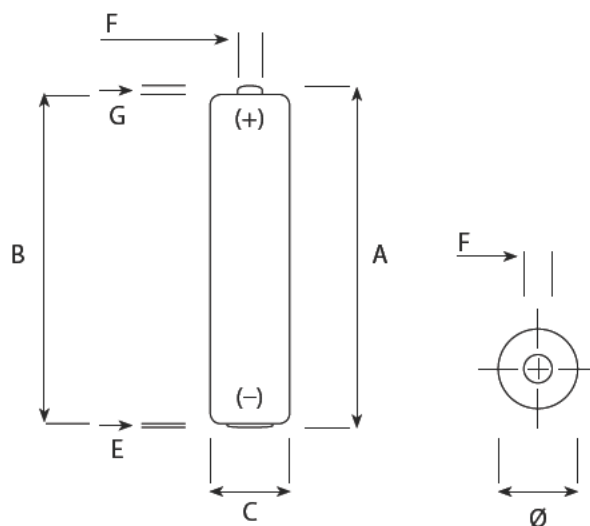
Product Datasheet

Alkaline

Powerline



LR03AD



IEC Dimensions (mm)		
Dimension	Maximum	Minimum
A	44,5	—
B	—	43,5
C	—	4,3
E	0,5	—
F	3,8	—
G	—	0,8
Ø	10,5	9,8

Specifications

Name	LR03/S / AAA / AM4 / MICRO / MN2400 / 24A / 24AC
Made in	Belgium
Type	Alkaline Foil
Nominal Voltage	1,5 Volt
Electrolyte	Potassium Hydroxide
Average weight	11 g
Storage temp. range	+10°C (50°F) ~ +25°C (77°F)
Operating temp. range	-20°C (-4°F) ~ +55°C (131°F)
Average Impedance	+/- 180 m-Ohm @ 1kHz fresh
Heavy metals	No added mercury (Hg), Cadmium (Cd) or Lead (Pb)
Compliant to	IEC 60086-1, IEC 60086-2, IEC 60086-5 non dangerous goods regulation EU directive 2006/66/EC Nordic Ecolabel
Recommended cut off voltage	0,8V per cell (0,9V per cell for multi series usage)

For more information:

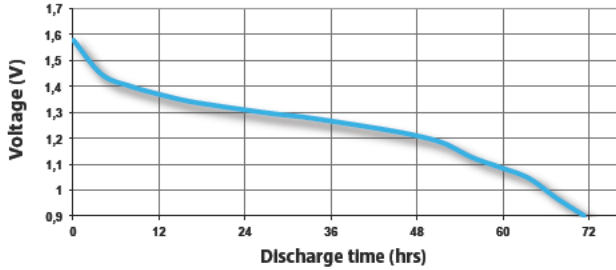
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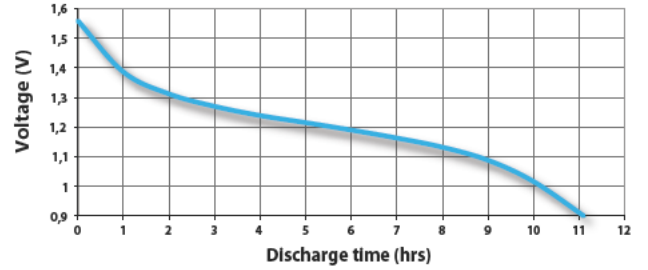
Typical discharge values

LR03AD

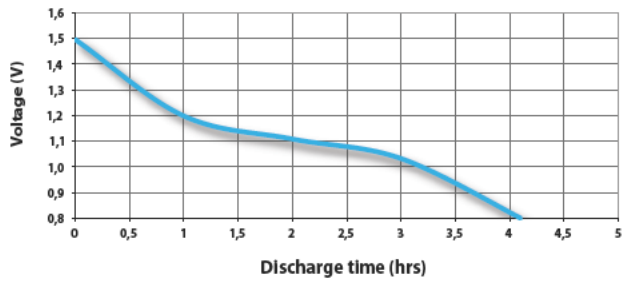
Radio/Clock
4h/d 75 ohm end 0,9V



Digital audio
1h/d 100 mA end 0,9V



Toy
1h/d 5,1 ohm end 0,8V



Remote control
15s/m 8h/d 24 ohm end 1,0V

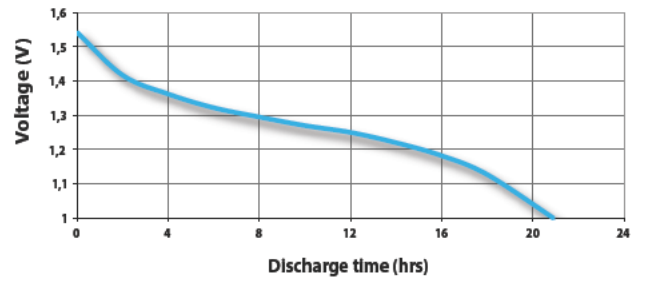
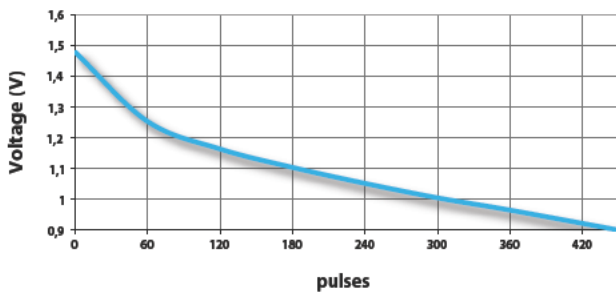
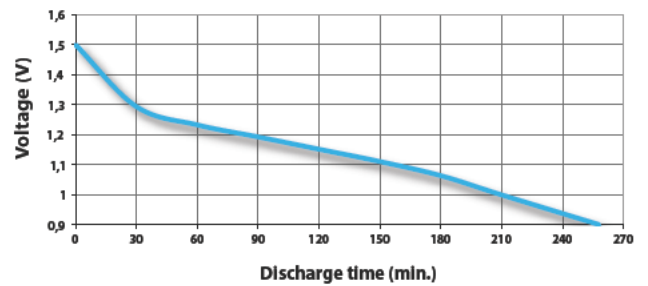


Photo flash
10s/m 1h/d 600mA end 0,9V



Portable lighting
4m/h 8h/d 5,1 ohm end 0,9V



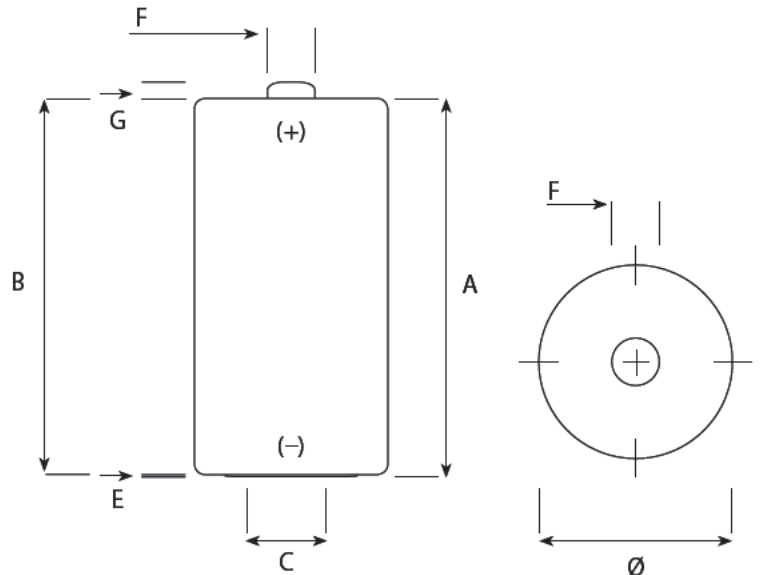
Product Datasheet

Alkaline

Powerline



LR14AD



IEC Dimensions (mm)		
Dimension	Maximum	Minimum
A	50,0	—
B	—	48,6
C	—	13,0
E	0,9	—
F	7,5	—
G	—	1,5
Ø	26,2	24,9

Specifications

Name	LR14 / L / C / AM2 / BABY / MN1400 / 14A / 14AC
Made in	Belgium
Type	Alkaline Foil
Nominal Voltage	1,5 Volt
Electrolyte	Potassium Hydroxide
Average weight	70 g
Storage temp. range	+10°C (50°F) ~ +25°C (77°F)
Operating temp. range	-20°C (-4°F) ~ +55°C (131°F)
Average Impedance	+/- 100 m-Ohm @ 1kHz fresh
Heavy metals	No added mercury (Hg), Cadmium (Cd) or Lead (Pb)
Compliant to	IEC 60086-1, IEC 60086-2, IEC 60086-5 non dangerous goods regulation EC directive 91/157EC & 98/101EC Nordic Ecolabel
Recommended cut off voltage	0,8V per cell (0,9V per cell for multi series usage)

For more information:

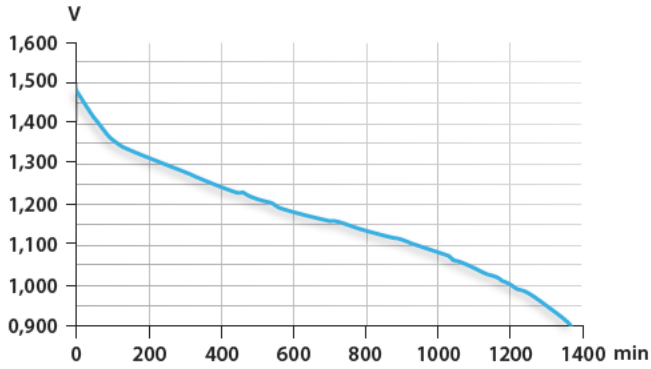
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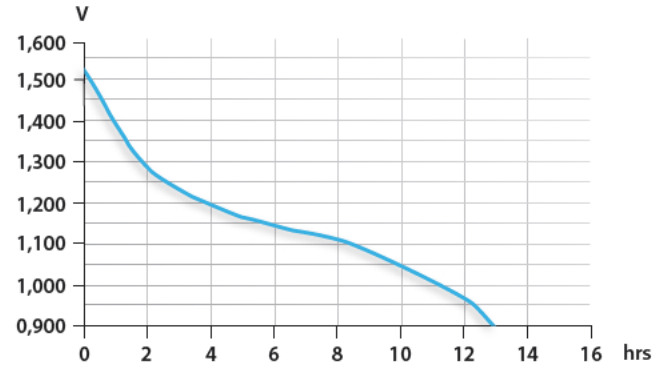
Typical discharge values

LR14AD

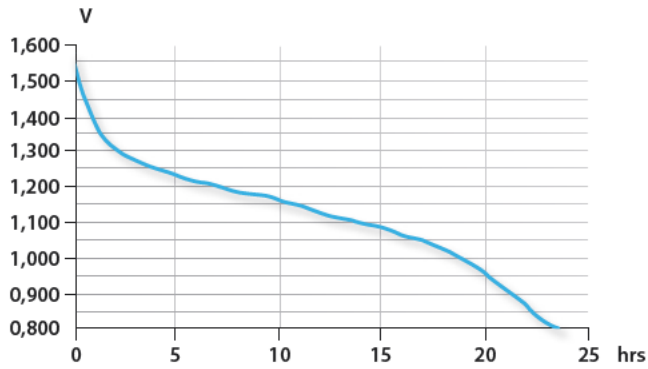
Portable lighting
4m/h 8h/d 3,9 ohm end 0,9V



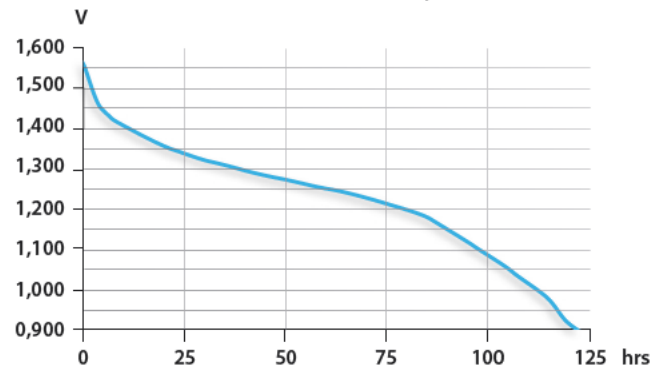
Portable stereo
2h/d 400 mA end 0,9V



Toy
1h/d 3,9 ohm end 0,8V



Radio
4h/d 20 ohm end 0,9V



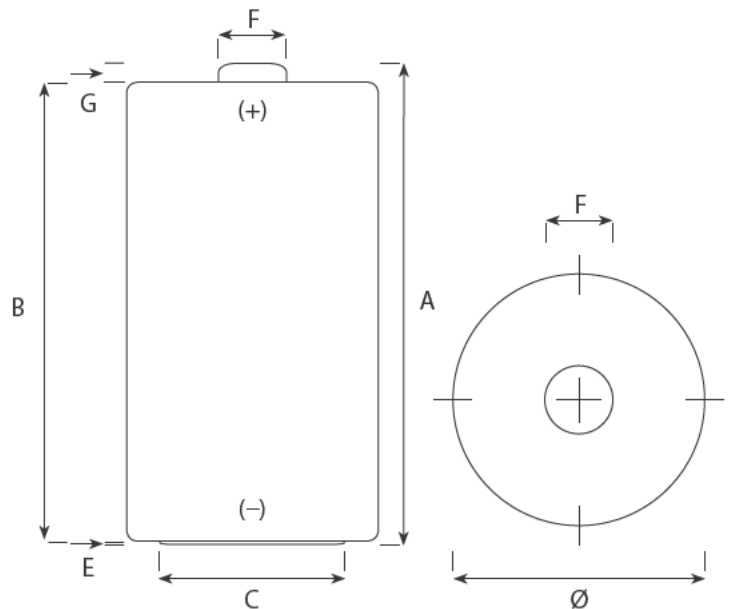
Product Datasheet

Alkaline

Powerline



LR20AD



IEC Dimensions (mm)		
Dimension	Maximum	Minimum
A	61,5	—
B	—	59,5
C	—	18,0
E	1,0	—
F	9,5	—
G	—	1,5
Ø	34,2	32,3

Specifications

Name	LR20 / XL / D / AM1 / MONO / MN1300 / 13A / 13AC
Made in	Belgium
Type	Alkaline Foil
Nominal Voltage	1,5 Volt
Electrolyte	Potassium Hydroxide
Average weight	140 g
Storage temp. range	+10°C (50°F) ~ +25°C (77°F)
Operating temp. range	-20°C (-4°F) ~ +55°C (131°F)
Average Impedance	+/- 90 m-Ohm @ 1kHz fresh
Heavy metals	No added mercury (Hg), Cadmium (Cd) or Lead (Pb)
Compliant to	IEC 60086-1, IEC 60086-2, IEC 60086-5 non dangerous goods regulation EU directive 2006/66/EC Nordic Ecolabel
Recommended cut off voltage	0,8V per cell (0,9V per cell for multi series usage)

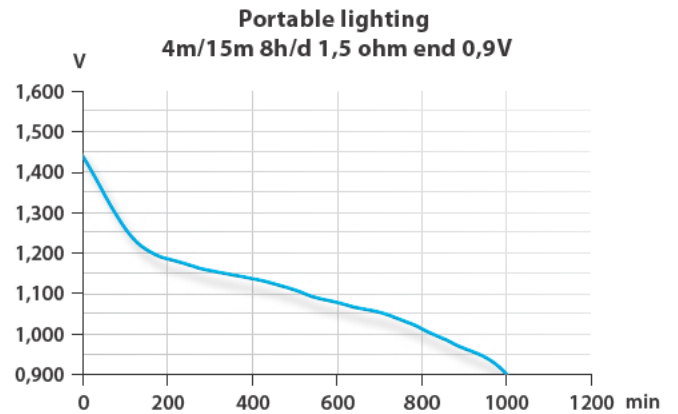
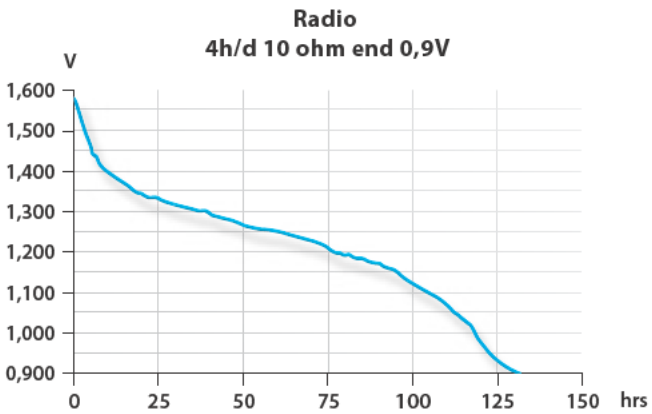
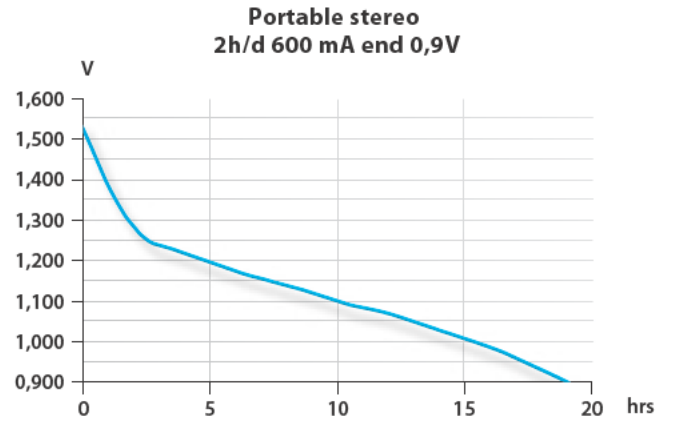
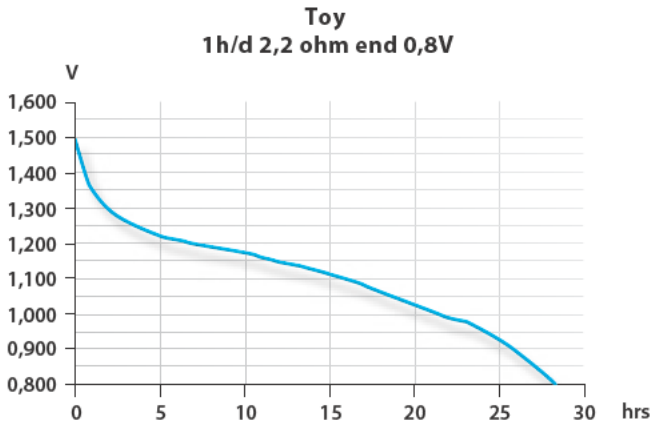
For more information:

www.panasonic-batteries.com

Panasonic

Typical discharge values

LR20AD



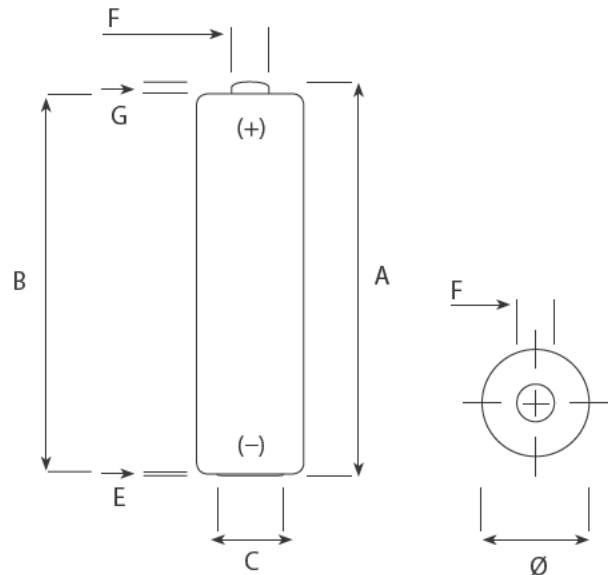
Product Datasheet

Alkaline

LR6 Powerline



LR6AD



IEC Dimensions (mm)		
Dimension	Maximum	Minimum
A	50,5	—
B	—	49,5
C	—	7,0
E	0,5	—
F	5,5	—
G	—	1,0
Ø	14,5	13,7

Specifications

Name	LR6 / M / AA / AM3 / MIGNON / MN1500 / 15A / 15AC
Made in	Belgium
Type	Alkaline Foil
Nominal Voltage	1,5 Volt
Electrolyte	Potassium Hydroxide
Average weight	23 g
Storage temperature range	+10°C (50°F) ~ +25°C (77°F)
Operating temperature range	-20°C (-4°F) ~ +55°C (131°F)
Average Impedance	+/- 105 m-Ohm @ 1kHz fresh
Heavy metals	No added mercury (Hg), Cadmium (Cd) or Lead (Pb)
Compliant to	IEC 60086-1, IEC 60086-2, IEC 60086-5 non dangerous goods regulation EU directive 2006/66/EC Nordic Ecolabel
Recommended cut off voltage	0,8V per cell (0,9V per cell for multi series usage)

For more information:

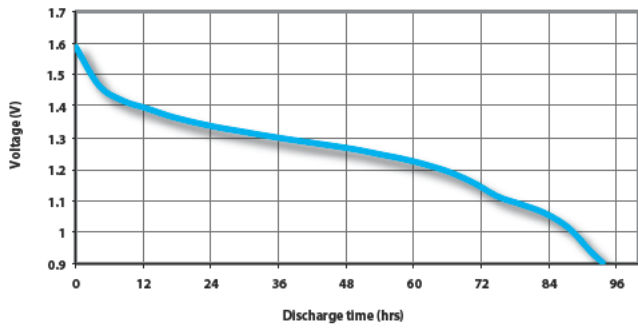
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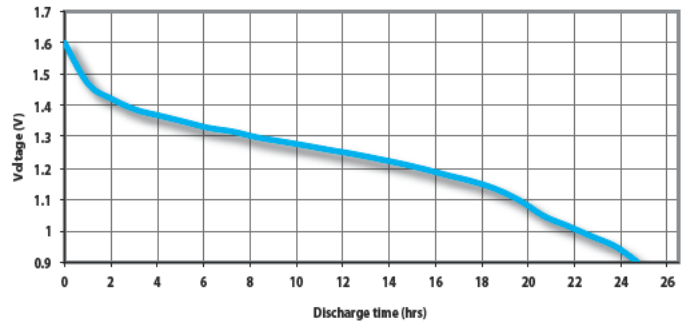
Typical discharge values

LR6AD

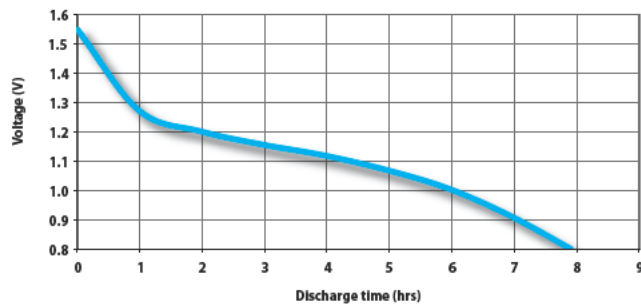
Radio/Clock
4h/d 43 ohm end 0,9V



Digital audio
1h/d 100 mA end 0,9V



Motor/toy
1h/d 3,9 ohm end 0,8V



Remote control
15s/m 8h/d 24 ohm end 1,0V

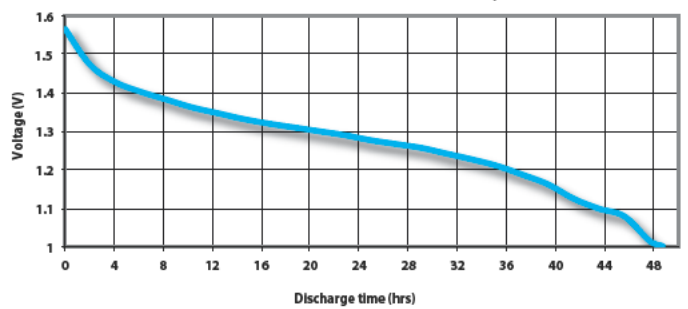
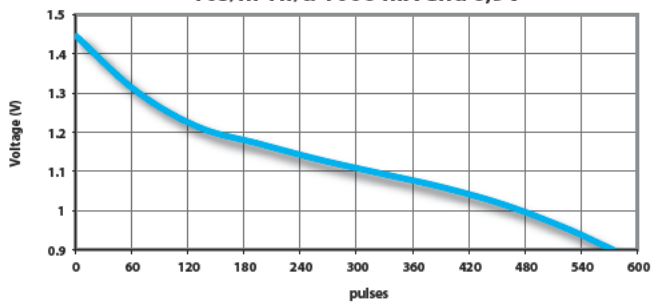
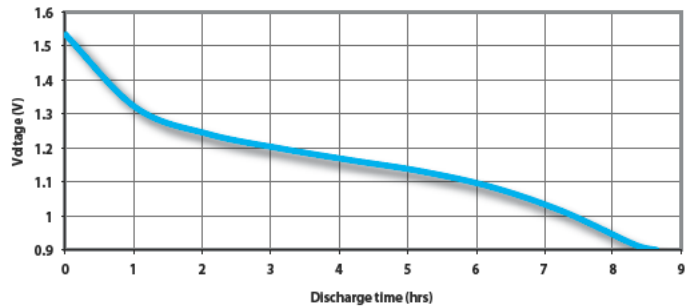


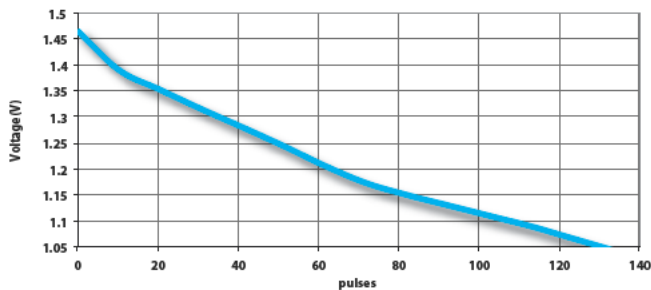
Photo flash
10s/m 1h/d 1000 mA end 0,9V



CD/Electronic games
1h/d 250 mA end 0,9V



DSC
10x(2s 1,5W/28s 0,65W) 5m,55m off,
24h/d end 1,05V



Portable lighting
4m/h 8h/d 3,3 ohm end 0,9V

