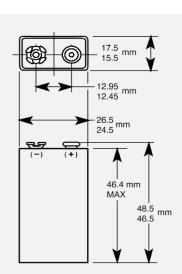




size: 9V (6LR61) PC1604



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Carbon Monoxide Detectors
- Smoke Detectors
- Multimeters
- Medical Devices
- Microphones

ELECTRICAL CHARACTERISTICS

Nominal capacity (2 mA Cont., 5V cut-off)

673 mAh

Typical Voltage (at + 20 °C)

9 V

AC Impedance @ 1kHz

1,700 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

45.0 g (1.6 oz)

Typical volume

22.8 cm³ (1.4 in³)

Terminals

Miniature snap

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86° F)

PROCELL®

PROFESSIONAL BATTERIES

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



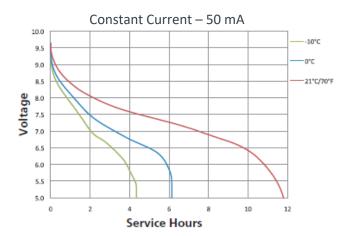












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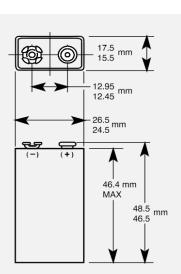
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: 9V (6LR61) PC1604



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Carbon Monoxide Detectors
- Smoke Detectors
- Handicap Door Openers
- Medical Devices
- Microphones

ELECTRICAL CHARACTERISTICS

Nominal capacity (2 mA Cont., 5V cut-off)

692 mAh

Typical Voltage (at + 20 °C)

9 V

AC Impedance @ 1kHz

1,692 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

48.7 g (1.6 oz)

Typical volume

22.8 cm³ (1.4 in³)

Terminals

Miniature snap

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

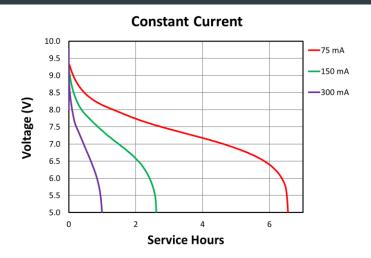
5°C to 30°C (41°F to 86° F)

PROCELL®

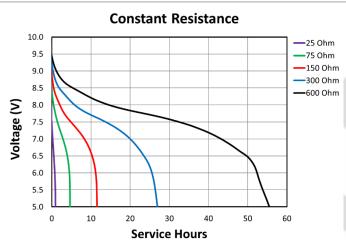
PROFESSIONAL BATTERIES

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











Constant Current - 75mA 10.0 --10°C/14°F 9.5 0°C/32°F 9.0 -21°C/70°F 8.5 54°C/129°F Voltage (V) 8.0 7.5 7.0 6.5 6.0 5.5 5.0 0 2 **Service Hours**

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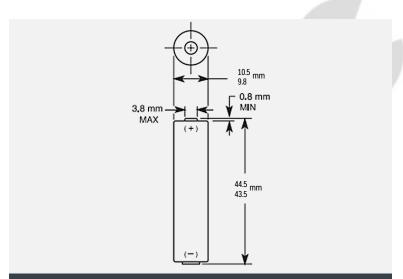
1,222 mAh



ALKALINE-MANGANESE DIOXIDE BATTERY



Size: AAA (LR03) PC2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Controls
- Sensors
- Security keypads
- Wireless mouse

ELECTRICAL CHARACTERISTICS

Nominal capacity (25mA Cont., .8V cut-off)

Typical Voltage (at + 20 °C) 1.5 V

AC Impedance @ 1kHz 155 m Ω

PHYSICAL CHARACTERISTICS

Typical weight 11.4 g (0.4 oz)

Typical volume
 3.5 cm³ (0.2 in³)

Terminals

OPERATING & STORAGE CONDITIONS

Operating temperature range -20°C to 54°C (-4°F to 130°F)

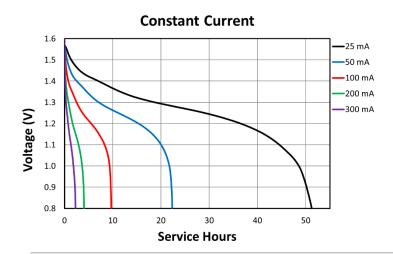
Recommended Storage (storage area should be clean, cool, dry and 5°C to 30°C ventilated) (41°F to 86°F)

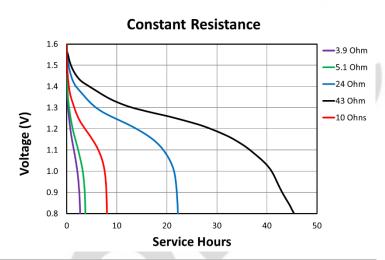
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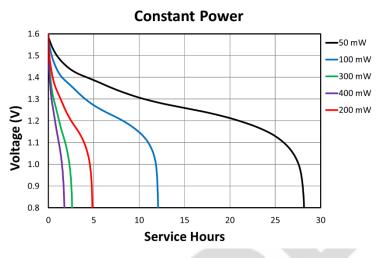
PROFESSIONAL BATTERIES
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www.procell.com

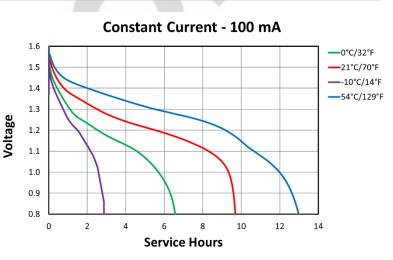
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



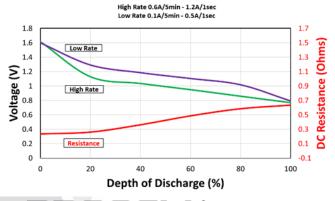








Typical Internal Resistance



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Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free)

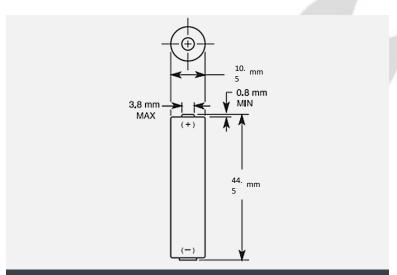
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AAA (LR03) PC2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Controls
- Sensors
- Security keypads
- Wireless mouse

ELECTRICAL CHARACTERISTICS

Nominal capacity (25mA Cont., .8V cut-off) 1,222 mAh

Typical Voltage (at + 20 $^{\circ}$ C) 1.5 V

AC Impedance @ 1kHz 155 m Ω

PHYSICAL CHARACTERISTICS

■ Typical weight 11.4 g (0.4 oz)

Typical volume
 3.5 cm³ (0.2 in³)

Terminals Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range -20°C to 54°C (-4°F to 130°F)

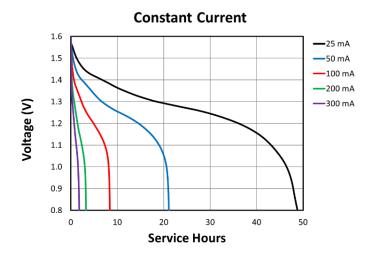
Recommended Storage (storage area should be clean, cool, dry and 5°C to 30°C ventilated) (41°F to 86°F)

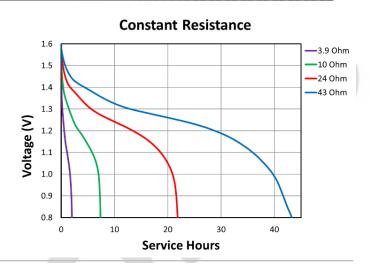
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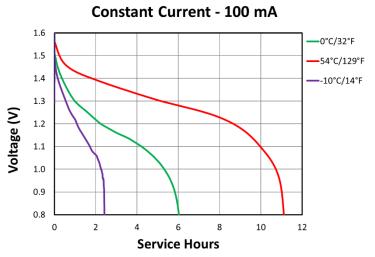
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.







Constant Power 1.6 **−**50 mW 1.5 -100 mW -200 mW 1.4 -300 mW Voltage (V) 1.3 -400 mW 1.2 1.1 1.0 0.9 8.0 0 10 15 20 25 30 **Service Hours**



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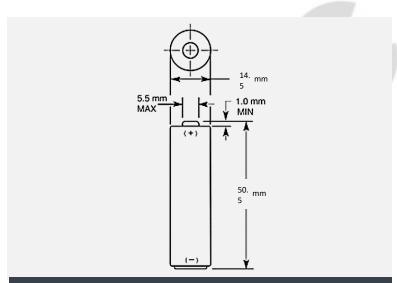
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AA (LR6) PC1500



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Control
- Wireless Mouse / Keyboard
- Clocks
- Flashlights
- Thermostats

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

3,125 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

98 mΩ

Flat

PHYSICAL CHARACTERISTICS

Typical weight 24.7 g (0.9 oz)

■ Typical volume 8.4 cm³ (0.5 in³)

Terminals

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

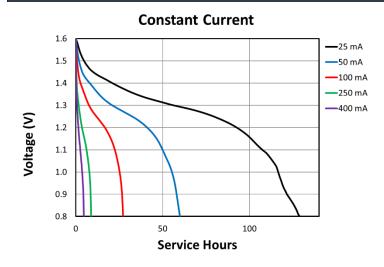
5°C to 30°C (41°F to 86° F)

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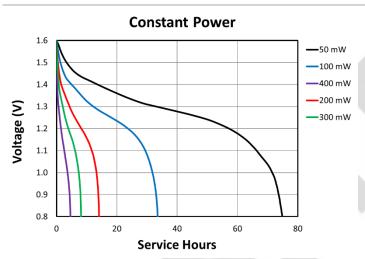
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www.procell.com

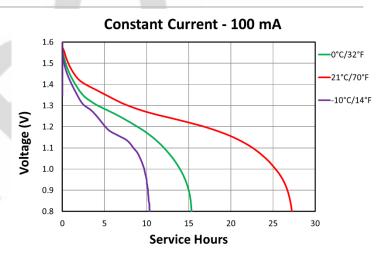
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and dischargedata shown for examples of the energy/service life that the battery will provide for various load conditions.



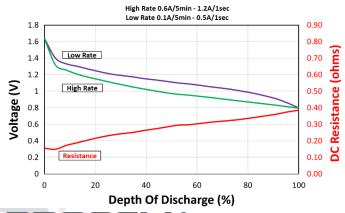








Typical Internal Resistance



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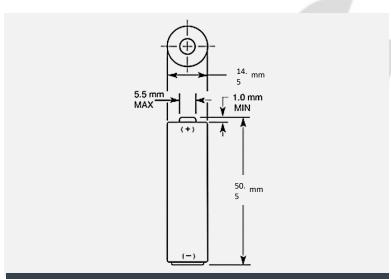
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AA (LR6) PC1500



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Control
- Wireless Mouse / Keyboard
- Clocks
- Flashlights
- Thermostats

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

3,125 mAh

Typical Voltage (at + 20 °C)

1.5 V

Flat

AC Impedance @ 1kHz

98 mΩ

PHYSICAL CHARACTERISTICS

Typical weight 24.7 g (0.9 oz)

Typical volume
 8.4 cm³ (0.5 in³)

Terminals

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

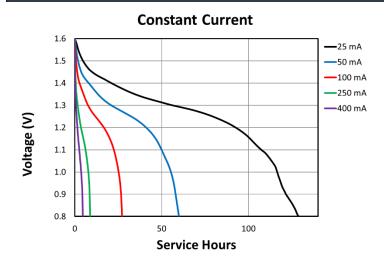
5°C to 30°C (41°F to 86° F)

PROCELL

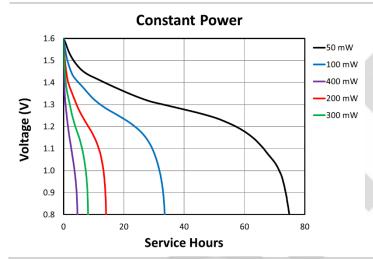
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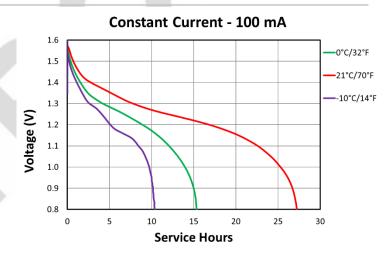
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and dischargedata shown for examples of the energy/service life that the battery will provide for various load conditions.











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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: C (LR14) PC1400

7.5 mm MAX 26.2 mm 1.5 mm MIN (+) 50. mm 0

Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Clocks
- Multimeters
- Flashlights
- Scales

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

9,038 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

150 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

70.7 g (2.5 oz)

Typical volume

26.9 cm³ (1.6 in³)

Terminals

(...

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

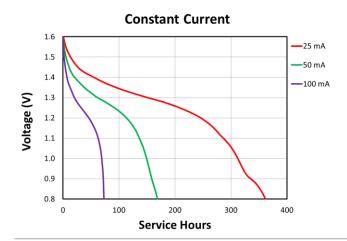
5°C to 30°C (41°F to 86° F)

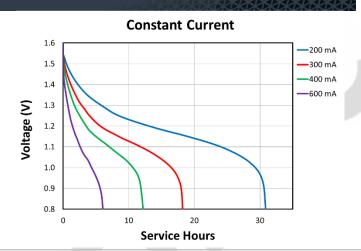
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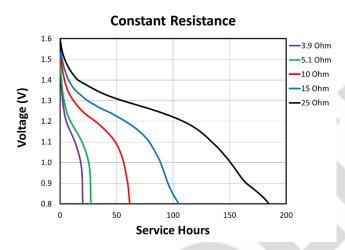
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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











Constant Current - 100 mA 1.6 --10°C/14°F 1.5 **-**21°C/70°F -0°C/32°F 1.4 -54°C/129°F Voltage (V) 1.3 1.2 1.1 1.0 0.9 0.8 0 20 **Service Hours**

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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: D (LR20) PC1300

9.5 mm — 32.3 — 1.5 mm MIN MIN S9.5 mm 59.5 mm

Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Clocks
- Multimeters
- Flashlights
- Scales

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

19,669 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

133 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

144.0 g (5.1 oz)

Typical volume

56.4 cm³ (3.4 in³)

Terminals

0. 1 0.11 (0. 1 111

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

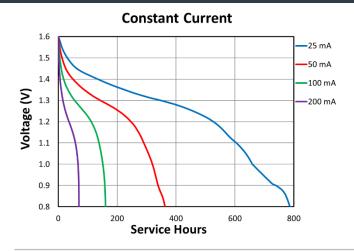
5°C to 30°C (41°F to 86° F)

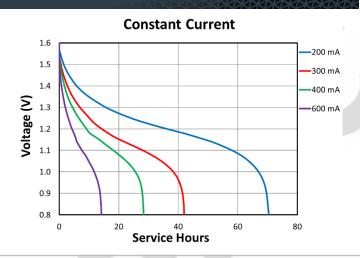
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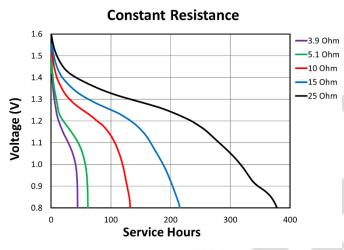
PROFESSIONAL BATTERIES

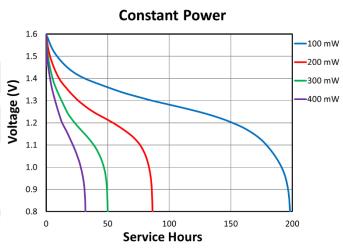
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











Constant Current - 100 mA 1.6 1.5 1.4 1.8 1.9 1.0 1.0 1.1 1.0 0.9 0.8 0 50 100 150

Service Hours

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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM-MANGANESE DIOXIDE BATTERY



Size: PC2016

(+) 1.4 - 1.6 mm (0.055 - 0.063 in)

Dimensions shown are IEC standards

KEY FEATURES

- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings & Retail Packaging
- Wide operating temperature range (-20°C / +60°C)
- Low self-discharge with long operating life (<2% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
 - Safety: IEC 60086-4
 - o Transport: UN 38.3
 - o REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

PROCELL®

PROFESSIONAL BATTERIES

Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com

ELECTRICAL CHARACTERISTICS

٠	Nominal capacity (15kΩ Cont.,2.0 V cut-off)	85 mAh
	Nominal voltage (at + 20 °C)	3.0 V
٠	Standard Continuous Discharge Current	0.1 mA
•	Maximum Continuous Discharge Current	6 mA
٠	Maximum Pulse Discharge Current at 1 sec	20 mA
٠	Nominal Energy	255 mWh
	AC Impedance @ 1kHz	8.5Ω

PHYSICAL CHARACTERISTICS

Typical weight 1.75 g (0.061 oz.)

Li metal content approx. 0.024 g

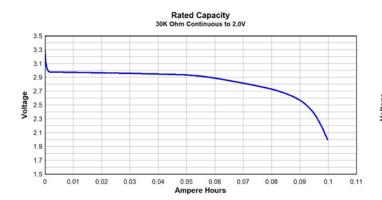
OPERATING & STORAGE CONDITIONS

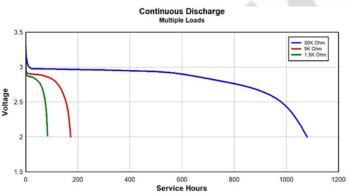
Operating temperature range -20°C to 60°l (-4°F to 140°F)

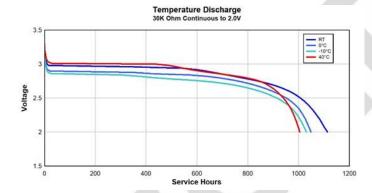
Recommended Storage (storage area should be clean, cool, dry and 5°C to 30° ventilated) 5°C to 86°F)

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.









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PROFESSIONAL BATTERIES

Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



TYPICAL APPLICATIONS

- Medical devices
- Security devices
- Fitness devices
- Watches
- Wireless sensors
- Toys
- Key-Fobs
- Bluetooth Trackers

TYPICAL APPLICATIONS

Test	Test designation	Observation
А	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
Ι	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

WARNING

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble, expose to heat above 100 °C (212 °F), incinerate, or expose contents to water

WARNING! KEEP BATTERIES AWAY FROM CHILDREN!

- Always keep your batteries away from children to prevent swallowing.
- If ingestion does occur, however, be aware that initial symptoms may be similar to other childhood illnesses such as coughing, drooling and discomfort.
- Battery ingestion hotline (860-498-8666)



Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free)

www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM-MANGANESE DIOXIDE BATTERY



Size: PC2025

(+) 22-2.5 mm (0.87-0.98 in)

Dimensions shown are IEC standards

ELECTRICAL CHARACTERISTICS

Nominal capacity (15kΩ Cont.,2.0 V cut-off)

Standard Continuous Discharge Current

Maximum Continuous Discharge Current

PHYSICAL CHARACTERISTICS

Maximum Pulse Discharge Current at 1 sec

Nominal voltage (at + 20 °C)

Nominal Energy

Typical weight

Li metal content

AC Impedance @ 1kHz

KEY FEATURES

- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings & Retail Packaging
- Wide operating temperature range (-20°C / +60°C)
- Low self-discharge with long operating life (<2% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
 - Safety: IEC 60086-4
 - o Transport: UN 38.3
 - REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

OPERATING & STORAGE CONDITIONS

Operating temperature range

Recommended Storage (storage area should be clean, cool, dry and ventilated)

approx. 0.052 g

2.56 g (0.09 oz.)

165 mAh

3.0 V

6 mA

20 mA

24Ω

495 mWh

0.2 mA

-20°C to 60°C (-4°F to 140°F)

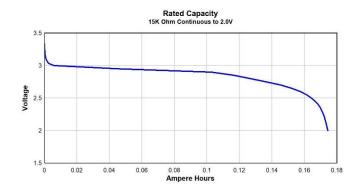
> 5°C to 30°C (41°F to 86° F)

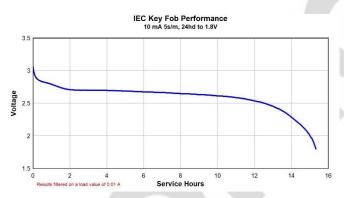
PROCELL®

PROFESSIONAL BATTERIES

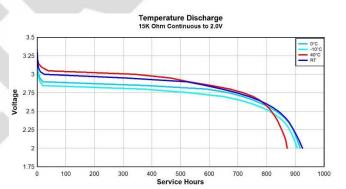
Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











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PROFESSIONAL BATTERIES

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TYPICAL APPLICATIONS

- Medical devices
- Security devices
- Fitness devices
- Watches
- Calculators
- Wireless sensors
- Toys
- Key-Fobs &Trackers

TYPICAL APPLICATIONS

Test	Test designation	Observation
А	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

WARNING

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble, expose to heat above 100 °C (212 °F), incinerate, or expose contents to water

WARNING! KEEP BATTERIES AWAY FROM CHILDREN!

- Always keep your batteries away from children to prevent swallowing.
- If ingestion does occur, however, be aware that initial symptoms may be similar to other childhood illnesses such as coughing, drooling and discomfort.
- Battery ingestion hotline (860-498-8666)



Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free)

www.procell.com

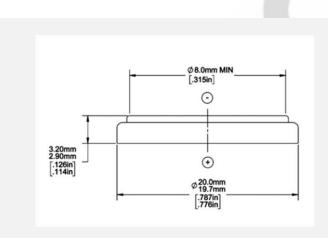
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM-MANGANESE DIOXIDE BATTERY



Size: PC2032



Dimensions shown are IEC standards

KEY FEATURES

- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings & Retail Packaging
- Wide operating temperature range (-20°C / +60°C)
- Low self-discharge with long operating life
 (<2% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
 - o Safety: IEC 60086-4
 - o Transport: UN 38.3
 - REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

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ELECTRICAL CHARACTERISTICS

٠	Nominal capacity (15kΩ Cont.,2.0 V cut-off)	245 mAh
	Nominal voltage (at + 20 °C)	3.0 V
٠	Standard Continuous Discharge Current	0.5 mA
٠	Maximum Continuous Discharge Current	6 mA
٠	Maximum Pulse Discharge Current at 1 sec	20 mA
٠	Nominal Energy	735 mWh
	AC Impedance @ 1kHz	20Ω

PHYSICAL CHARACTERISTICS

•	Typical weight	3.1 g (0.11 oz.)
•	Li metal content	approx. 0.06 g
	Battery Case	Ni Plated SS

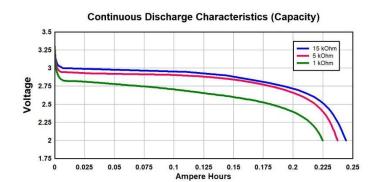
OPERATING & STORAGE CONDITIONS

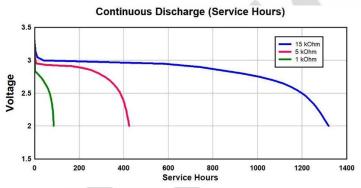
Operating temperature range	-20°C to 60°C (-4°F to 140°F)
Recommended Storage (storage area	500 (0000

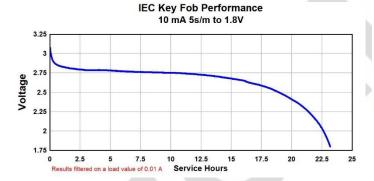
Recommended Storage (storage area should be clean, cool, dry and 5°C to 30°C ventilated) 5°C to 86°F)

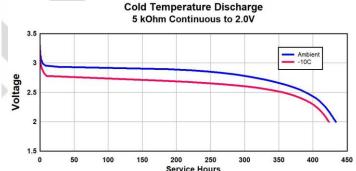
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











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PROFESSIONAL BATTERIES

Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



TYPICAL APPLICATIONS

- Medical devices
- Security devices
- Fitness devices
- Watches
- Calculators
- Wireless sensors
- Toys
- Key-Fobs &Trackers

TYPICAL APPLICATIONS

Test	Test designation	Observation
А	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

WARNING

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble, expose to heat above 100 °C (212 °F), incinerate, or expose contents to water

WARNING! KEEP BATTERIES AWAY FROM CHILDREN!

- Always keep your batteries away from children to prevent swallowing.
- If ingestion does occur, however, be aware that initial symptoms may be similar to other childhood illnesses such as coughing, drooling and discomfort.
- Battery ingestion hotline (860-498-8666)



Procell Professional Batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free)

www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

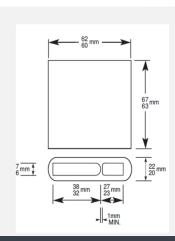




Size: 4.5V (3LR12) PC1203

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program



Dimensions shown are IEC standards

ELECTRICAL CHARACTERISTICS

Typical Voltage (at + 20 °C)

4.5 V

AC Impedance @ 1kHz

 $810~\text{m}\Omega$

PHYSICAL CHARACTERISTICS

Typical weight

154.0 g (5.4 oz)

Typical volume

83 cm³ (5.1 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

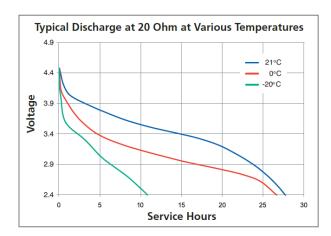
5°C to 30°C (41°F to 86° F)

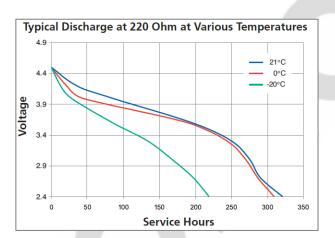
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PROFESSIONAL BATTERIES

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.







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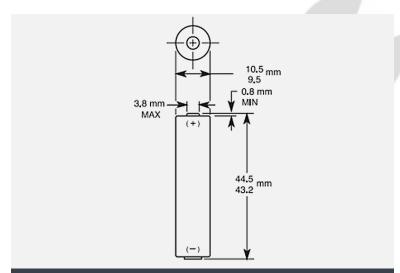
PROFESSIONAL BATTERIES
Procell Professional batteries
Berkshire Corporate Park
Phone: 1-800-544-5454 (Toll-free)
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AAA (L03) PC2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Controls
- Sensors
- Security keypads
- Wireless mouse

ELECTRICAL CHARACTERISTICS

Nominal capacity (43 Ω Cont., .8V cut-off)

1,236 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

 $116~\mathrm{m}\Omega$

PHYSICAL CHARACTERISTICS

Typical weight

11.6 g (0.4 oz)

Typical volume

3.5 cm³ (0.2 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

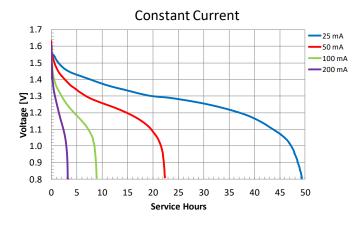
5°C to 30°C (41°F to 86° F)

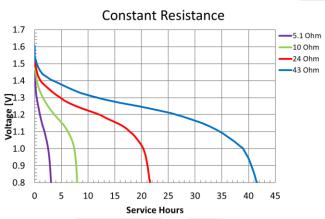
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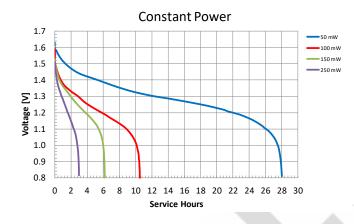
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www.procell.com

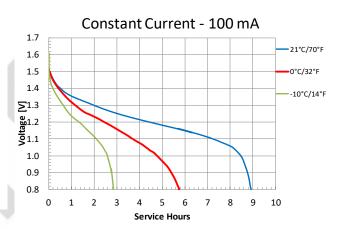
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



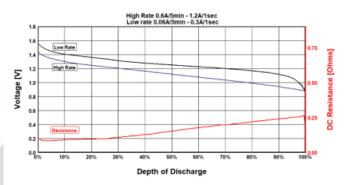








Typical Internal Resistance



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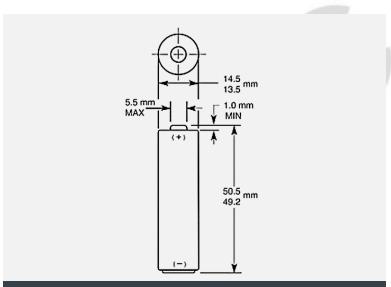
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AA (LR6) PC1500



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Controls
- Sensors
- Security Keypads
- Wireless Mouse

ELECTRICAL CHARACTERISTICS

Nominal capacity (43 Ω Cont., .8V cut-off)

3,016 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

81 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

24.0 g (0.8 oz)

Typical volume

8.4 cm³ (0.5 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

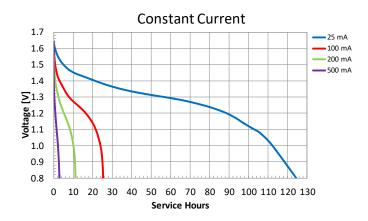
5°C to 30°C (41°F to 86° F)

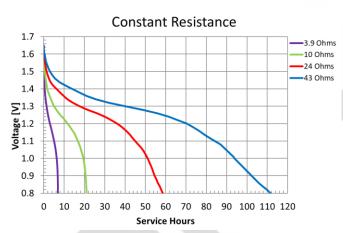
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PROFESSIONAL BATTERIES

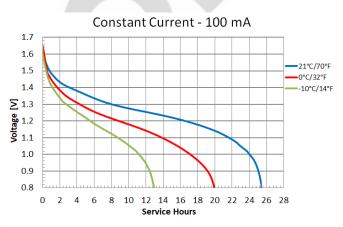
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



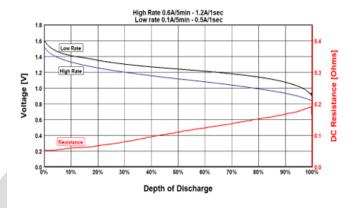








Typical Internal Resistance



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www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: C (LR14) PC1400

7.5 mm 1.5 mm MAX 50.0 mm 48.6

Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Security Keypads
- Sensors
- Flushometers

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 Ω Cont., .8V cut-off)

8,100 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

 $150\,\text{m}\Omega$

PHYSICAL CHARACTERISTICS

Typical weight

69.0 g (2.4 oz)

Typical volume

26.9 cm³ (1.6 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

Recommended Storage (storage area should be clean, cool, dry and ventilated)

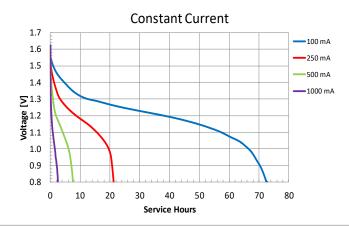
5°C to 30°C (41°F to 86°F)

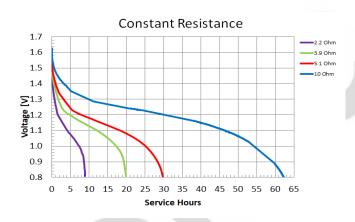
PROFESSIONAL BATTERIES

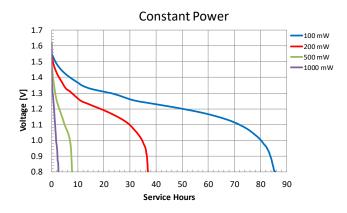
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.













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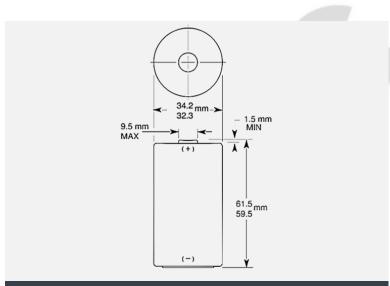
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: D (LR20) PC1300



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Security Keypads
- Sensors
- Flushometers

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 Ω Cont., .8V cut-off)

15,476 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

136 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

139.0 g (4.9 oz)

Typical volume

56.4 cm³ (3.4 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86° F)

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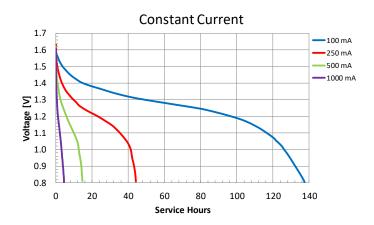
PROFESSIONAL BATTERIES

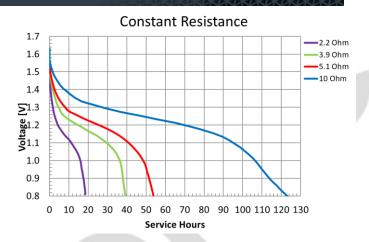
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free)

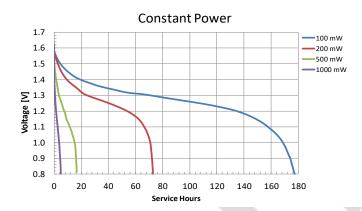
www.procell.com

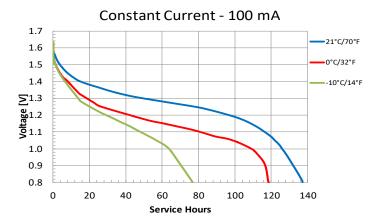
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











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PROFESSIONAL BATTERIES

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: 9V (6LR61) PX1604

17.5 mm 12.95 mm 12.45 mm 26.5 mm 46.4 mm MAX 48.5 mm 46.5 mm

Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Door Locks
- Air Fresheners
- Medical Devices
- Radios

ELECTRICAL CHARACTERISTICS

Nominal capacity (2 mA Cont., 5V cut-off)

726 mAh

Typical Voltage (at + 20 °C)

4 000 --- 0

9 V

AC Impedance @ 1kHz

1,692 m Ω

PHYSICAL CHARACTERISTICS

Typical weight

48.5 g (1.6 oz)

Typical volume

22.8 cm³ (1.4 in³)

Terminals

Miniature snap

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

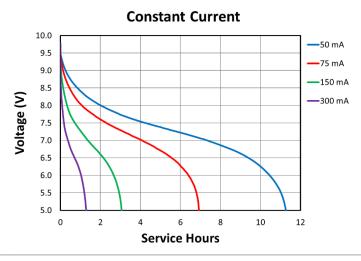
5°C to 30°C (41°F to 86° F)

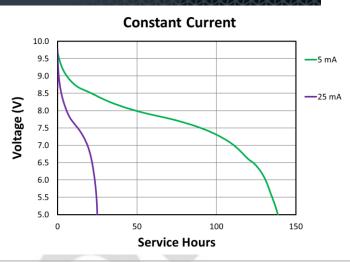
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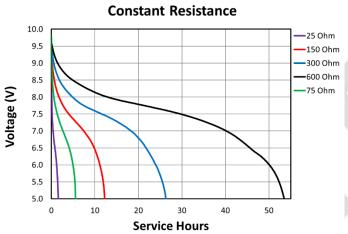
PROFESSIONAL BATTERIES

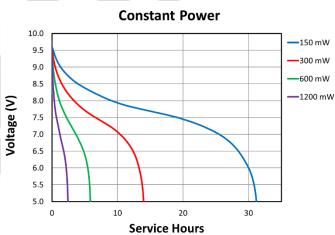
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











Constant Current - 75mA



PROFESSIONAL BATTERIES

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free)

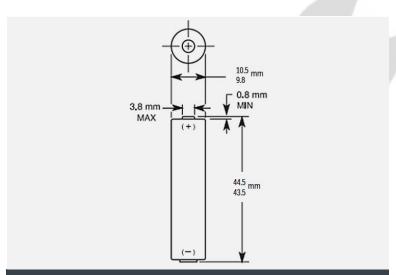
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AAA (LR03) PX2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Blood pressure monitors
- Soap dispensers
- Flashlights
- Pulse oximeters

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

1,223 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

116 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

11.3 g (0.4 oz)

Typical volume

3.5 cm³ (0.2 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

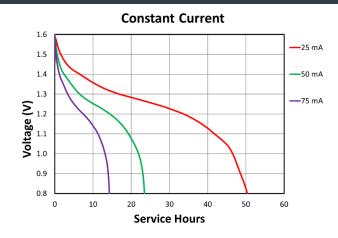
5°C to 30°C (41°F to 86° F)

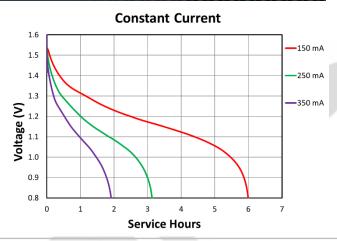
PROCELL®

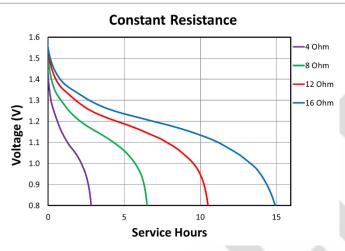
PROFESSIONAL BATTERIES
Procell Professional batteries
Berkshire Corporate Park
Phone: 1-800-544-5454 (Toll-free)
www.procell.com

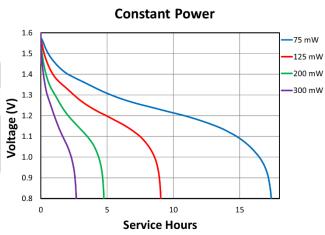
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

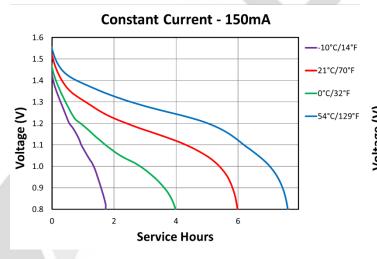


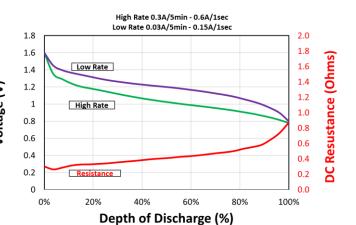












Typical Internal Resistance

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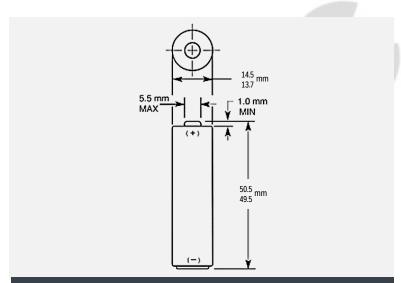
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AA (LR6) PX1500



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Medical Devices
- Security Cameras
- Soap Dispensers
- Electronic Door Locks
- Window Blinds/Shades

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

3,072 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

77 mΩ

PHYSICAL CHARACTERISTICS

Typical weight 24.3 g (0.9 oz)

Typical volume
 8.4 cm³ (0.5 in³)

Terminals Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

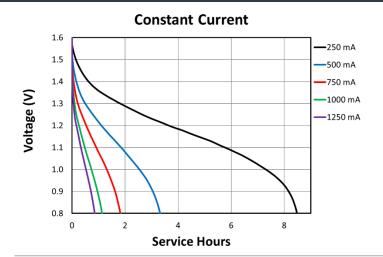
5°C to 30°C (41°F to 86° F)

PROCELL®

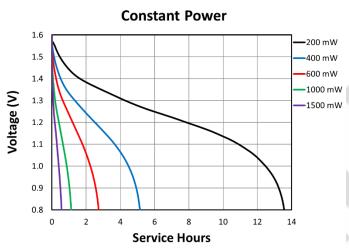
PROFESSIONAL BATTERIES
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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and dischargedata shown for examples of the energy/service life that the battery will provide for various load conditions.











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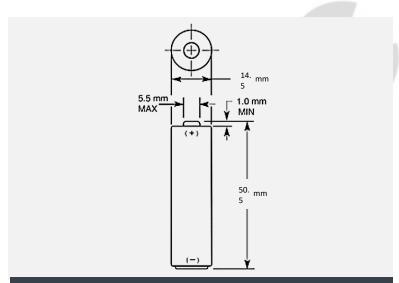
PROFESSIONAL BATTERIES

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AA (LR6) PX1500



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Medical Devices
- Security Cameras
- Soap Dispensers
- Electronic Door Locks
- Window Blinds/Shades

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

3,072 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

77 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

24.3 g (0.9 oz)

Typical volume

8.4 cm³ (0.5 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

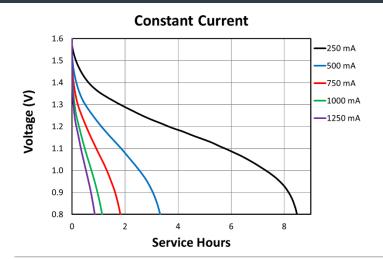
5°C to 30°C (41°F to 86° F)

PROCELL®

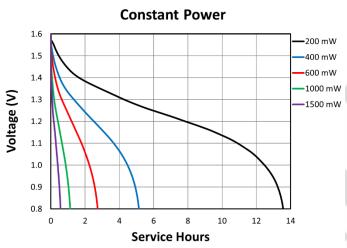
PROFESSIONAL BATTERIES
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www.procell.com

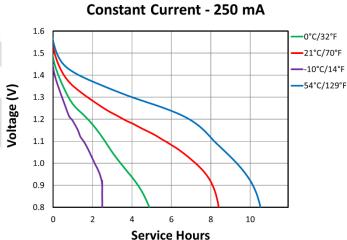
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











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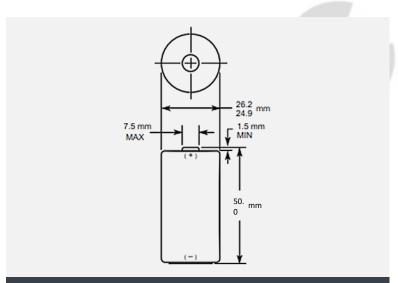
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www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: C (LR14) PX1400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Sanitizer Dispensers
- Air Fresheners
- Paper Towel Dispensers
- Flashlights
- Soap Dispensers

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

8,240 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

74 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

65.0 g (2.5 oz)

Typical volume

26.9 cm³ (1.6 in³)

Terminals

0.0 0... (1.0 ...

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86° F)

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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





0.8

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PROCELL® PROFESSIONAL BATTERIES

10

15

Service Hours

20

25

30

0.8

0

5

Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and

20

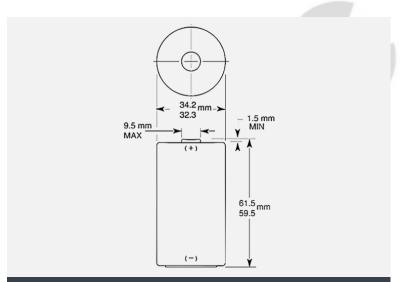
Service Hours

30





Size: D (LR20) PX1300



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Sanitizer Dispensers
- Automatic Odorizers
- Paper Towel Dispensers
- Flashlights
- Soap Dispensers

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PROFESSIONAL BATTERIES

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ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

18,600 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

56 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

140.0 g (5 oz)

Typical volume

56.4 cm³ (3.4 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

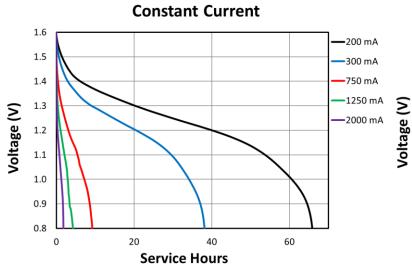
-20°C to 54°C (-4°F to 130°F)

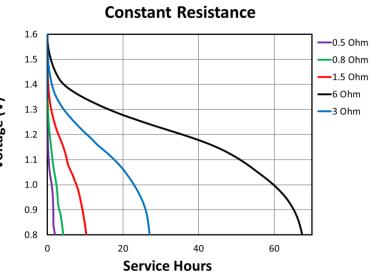
 Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86° F)

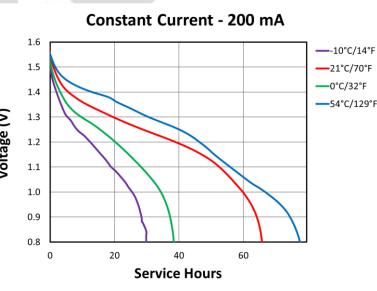
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.







Constant Power 1.6 250 mW 1.5 500 mW 750 mW 1.4 1000 mW Voltage (V) 1.3 1500 mW 1.2 1.1 1.0 0.9 0.8 20 40 0 10 30 50 60 **Service Hours**



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www.procell.com

This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

battery will provide for various load conditions.

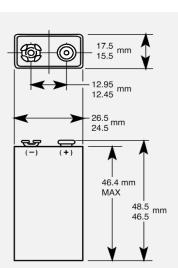
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and

discharge data shown for examples of the energy/service life that the





Size: 9V (6LR61) PX1604



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Door Locks
- Air Fresheners
- Medical Devices
- Radios

ELECTRICAL CHARACTERISTICS

Nominal capacity (2 mA Cont., 5V cut-off)

726 mAh

Typical Voltage (at + 20 °C)

9 V

AC Impedance @ 1kHz

1,692 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

48.5 g (1.6 oz)

Typical volume

22.8 cm³ (1.4 in³)

Terminals

Miniature snap

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

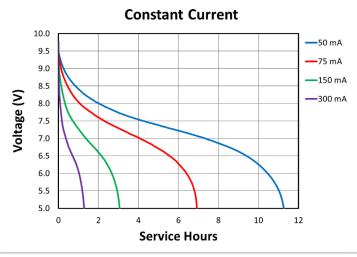
5°C to 30°C (41°F to 86° F)

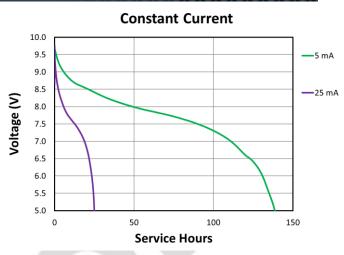
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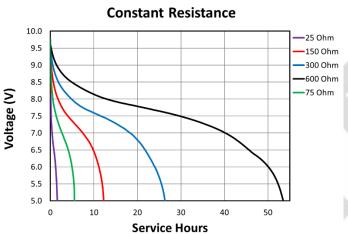
PROFESSIONAL BATTERIES

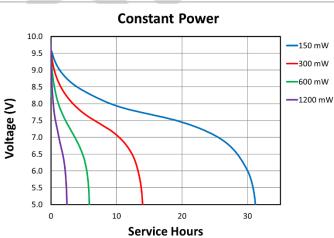
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.











Constant Current - 75mA



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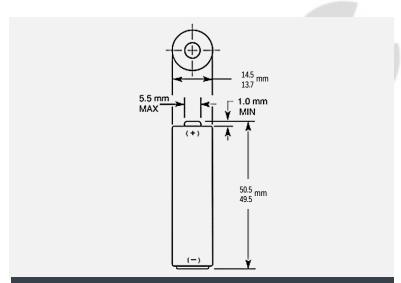
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AA (LR6) PX1500



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Medical Devices
- Security Cameras
- Soap Dispensers
- Electronic Door Locks
- Window Blinds/Shades

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

3,112 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

68 mΩ

PHYSICAL CHARACTERISTICS

Typical weight 24.3 g (0.9 oz)

Typical volume
 8.4 cm³ (0.5 in³)

Terminals

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

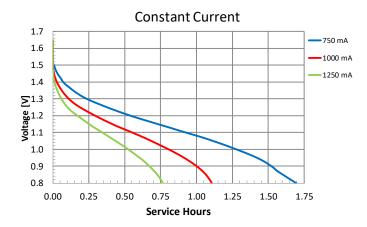
5°C to 30°C (41°F to 86° F)

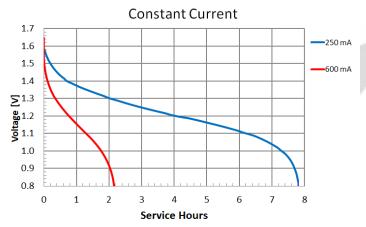
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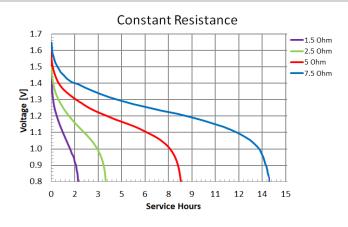
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www.procell.com

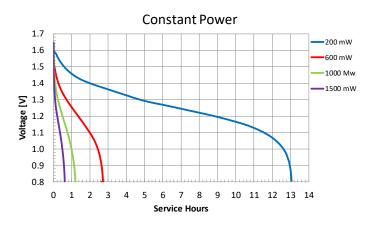
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and dischargedatashownfor examples of the energy/service life that the battery will provide for various load conditions.



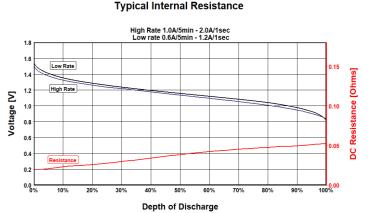












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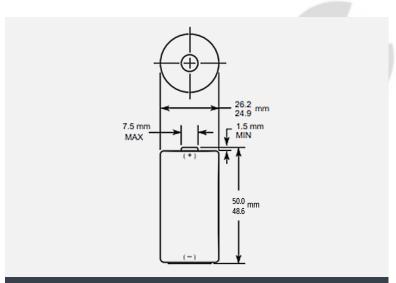
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: C (LR14) PX1400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - Safety: IEC 60086-5
 - ANSI C 18.1M, Part-2
 - **EU Battery Directive**
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Sanitizer Dispensers
- Air Fresheners
- Paper Towel Dispensers
- Flashlights
- Soap Dispensers

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

8,240 mAh

Typical Voltage (at + 20 °C)

1.5 V

Flat

AC Impedance @ 1kHz

 $74 \text{ m}\Omega$

PHYSICAL CHARACTERISTICS

Typical weight

65.0 g (2.5 oz)

Typical volume

26.9 cm3 (1.6 in3)

Terminals

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

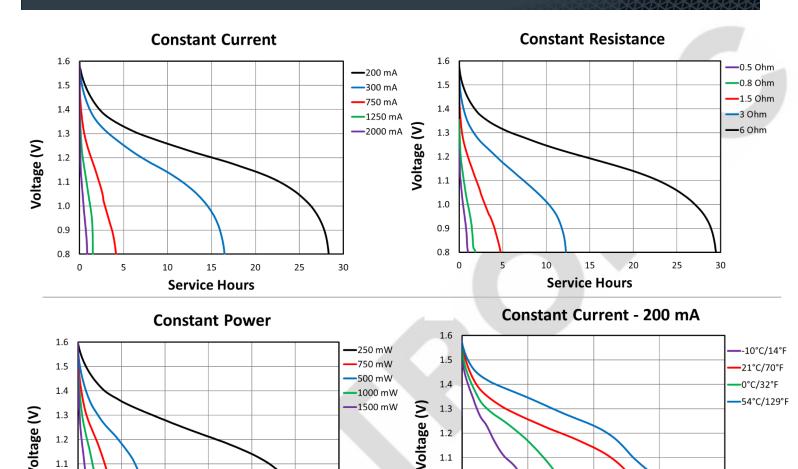
Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86°F)

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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





1.0

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10

PROCELL® PROFESSIONAL BATTERIES

10

15

Service Hours

20

25

30

1.0

0.9

0.8

0

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Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

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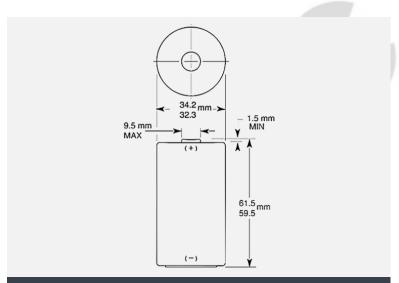
Service Hours

30





Size: D (LR20) PX1300



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Sanitizer Dispensers
- Automatic Odorizers
- Paper Towel Dispensers
- Flashlights
- Soap Dispensers

ELECTRICAL CHARACTERISTICS

Nominal capacity (25 mA Cont., .8V cut-off)

18,600 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

56 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

140.0 g (5 oz)

Typical volume

56.4 cm³ (3.4 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

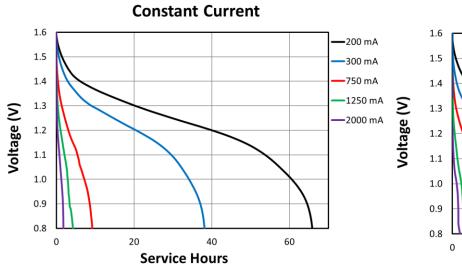
5°C to 30°C (41°F to 86° F)

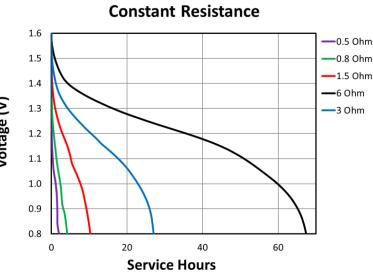
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PROFESSIONAL BATTERIES

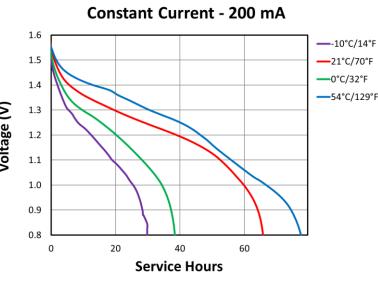
Procell Professional batteries Berkshire Corporate Park Phone: 1-800-544-5454 (Toll-free) www.procell.com Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.







Constant Power 1.6 250 mW 1.5 500 mW 750 mW 1.4 1000 mW Voltage (V) 1.3 1500 mW 1.2 1.1 1.0 0.9 0.8 20 40 0 10 30 50 60 **Service Hours**



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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM/MANGANESE DIOXIDE BATTERY



Size: CR2

KEY FEATURES

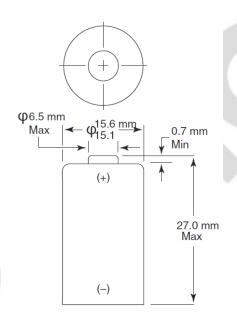
- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Wide operating temperature range (-20°C/ + 75°C)
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety, and environment standards:
 - Safety: IEC 60086-4
 - o Transport: UN 38.3
 - o RoHS and REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

TYPICAL APPLICATIONS

- Security Devices (sensors, cameras)
- Smoke Detectors
- Wireless Sensors
- Remote Control
- High Intensity Flashlights
- Laser Sights

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ELECTRICAL CHARACTERISTICS

٦	Nominal capacity (100 Ohm Cont, 2 V cut-off)	920 mAh
•	Typical Voltage (at +20°C)	3.2-3.3 V
•	Standard Continuous Discharge Current	20 mA
÷	Maximum Continuous Discharge Current	60 mA
٠	Maximum Abnormal Charge Current	20 mA
Υ	Nominal Energy	2.55 Wh
	AC Impedance @ 1kHz	500 mOhm

PHYSICAL CHARACTERISTICS

Typical weight	11.0g (0.39 oz.)

Li metal content approx. 0.30 g

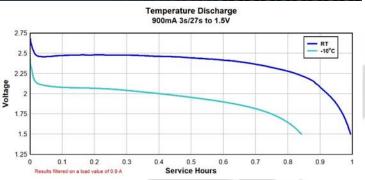
OPERATING & STORAGE CONDITIONS

•	Operating temperature range	-20°C to 75°C (-4°F to 167°F)
٠	Recommended Storage Storage area should be clean, cool	,
	(preferably not exceeding +30°C), dry	5°C to 30°C
	and ventilated	(41°F to 86° F)

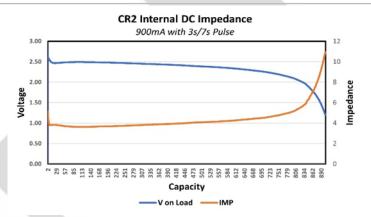
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

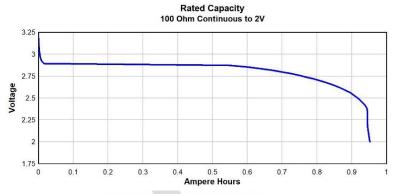














- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble heat above 100°C (212°F), incinerate or expose contents to water

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PROFESSIONAL BATTERIES

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60086-4 © IEC:2007 Edition 3.0

Test	Test designation	Observation
Α	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM-MANGANESE DIOXIDE BATTERY



Size: CR123A

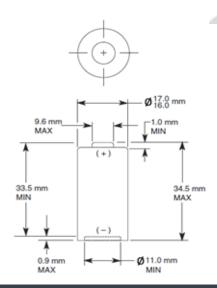
KEY FEATURES

- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Low self-discharge with long operating life
 (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
- Safety: IEC 60086-4
- Transport: UN 38.3
- RoHS and REACH compliance
- Quality: ISO 9001, Duracell World Class Continuous Program



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Dimensions shown are IEC standards

ELECTRICAL CHARACTERISTICS

	Nominal capacity (100 Ω Cont., 2V cut-off)	1550 mAh
٠	Typical Voltage (at + 20 °C)	3.2-3.3 V
ċ	Standard Continuous Discharge Current	20 mA
•	Maximum Continuous Discharge Current	60 mA
Υ	Maximum Abnormal Charge Current	25 mA
٠	Nominal Energy	4.65 Wh
٠	AC Impedance @ 1kHz	250 mΩ

PHYSICAL CHARACTERISTICS

Typical weight 17.0 g (0.60 oz.)

Li metal content approx. 0.56g

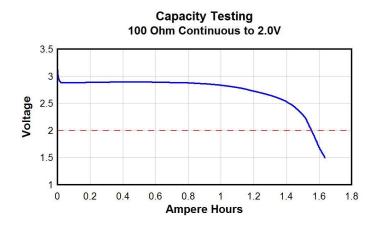
OPERATING & STORAGE CONDITIONS

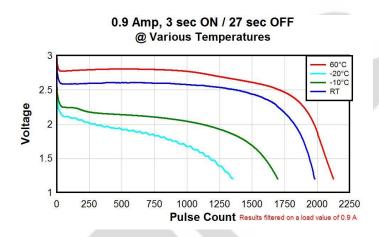
Operating temperature range
 -20°C to 75°C
 (-4°F to 167°F)

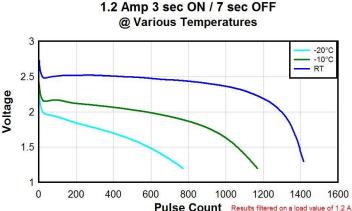
Recommended Storage (storage area should be clean, cool, dry and ventilated
 5°C to 30°C (41°F to 86°F)

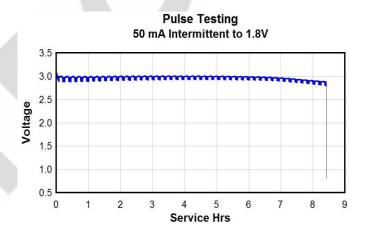
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

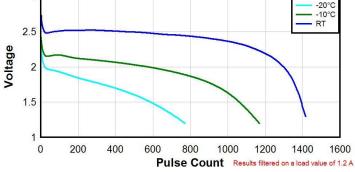


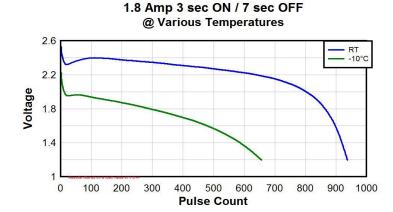












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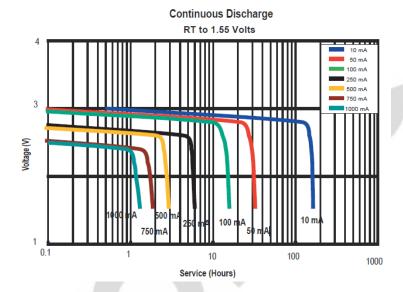
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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



TYPICAL APPLICATIONS

- Cameras
- Security devices (sensors, monitoring cameras)
- Smoke Detectors
- Wireless Sensors
- Door locks
- High Intensity Flashlights
- Laser Sights



WARNING

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble, heat above 100 °C (212 °F), incinerate, or expose contents to water

60086-4 © IEC:2007 EDITION 3.0

Test	Test designation	Observation
А	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
1	Abnormal charging	Pass
J	Free fall	Pass
К	Thermal Abuse	Pass

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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM/MANGANESE DIOXIDE BATTERY



Size: CR123A

KEY FEATURES

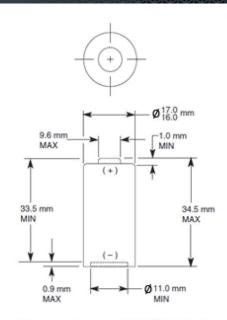
- Industry Highest Cell Capacity & High Energy
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Wide operating temperature range (-20°C/ + 75°C)
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety, and environment standards:
 - o Safety: IEC 60086-4
 - Transport: UN 38.3
 - RoHS and REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

TYPICAL APPLICATIONS

- Security Devices (sensors, monitoring cameras)
- Smoke Detectors
- Wireless Sensors
- Door Locks
- High Intensity Flashlights
- Laser Sights

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Dimensions shown are IEC/ANSI standards

ELECTRICAL CHARACTERISTICS

٦	Nominal capacity (100 Ohm Cont, 2 V cut-off)	1600 mAh
٠	Typical Voltage (at +20°C)	3.2-3.3 V
٠	Standard Continuous Discharge Current	20 mA
÷	Maximum Continuous Discharge Current	60 mA
٠	Maximum Abnormal Charge Current	25 mA
Υ	Nominal Energy	4.35 Wh
	AC Impedance @ 1kHz	350 mOhm

PHYSICAL CHARACTERISTICS

Typical weight	17.0g (0.60 oz.)

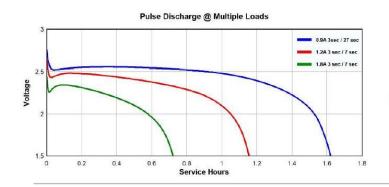
Li metal content approx. 0.53 g

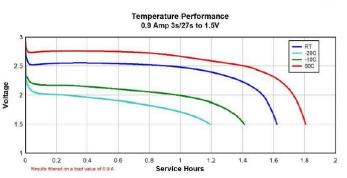
OPERATING & STORAGE CONDITIONS

•	Operating temperature range	-20°C to 75°C (-4°F to 167°F)
•	Recommended Storage Storage area should be clean, cool	,
	(preferably not exceeding +30°C), dry and ventilated	5°C to 30°C (41°F to 86° F)
	and ventiliated	(41 F (U OU F)

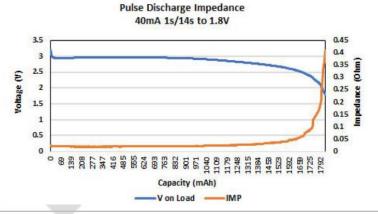
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

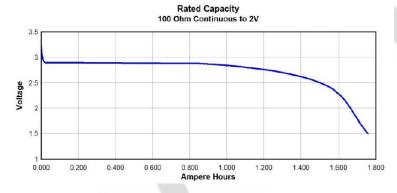






Low Load Pulse Test 300mA Pulse with 2mA Background to 1.8V





Warning

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble heat above 100°C (212°F), incinerate or expose contents to water

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Test	Test designation	Observation
Α	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



LITHIUM/MANGANESE DIOXIDE BATTERY



Size: PX2450

KEY FEATURES

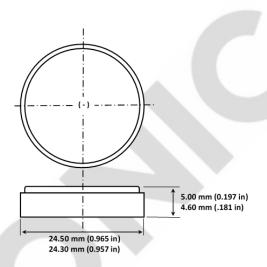
- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Child-Safe Markings
- Wide operating temperature range (-20°C/ + 60°C)
- Low self-discharge with long operating life
 (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
 - Safety: IEC 60086-4
 - Transport: UN 38.3
 - REACH compliance
 - Quality: ISO 9001, Duracell World Class Continuous Program

TYPICAL APPLICATIONS

- Security Devices
- Watches & Calculators
- Fitness Devices & Wireless Sensors
- Key-Fobs & Trackers
- Remote Controls & Garage Door Openers
- Measurement Devices

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Dimensions shown are IEC standards

ELECTRICAL CHARACTERISTICS

•	Nominal capacity (7.5k Ohm Cont., 2.0 V cut-off)	600 mAh
•	Minimum Open Circuit Voltage (at +20°C)	3.0 V
٠	Standard Continuous Discharge Current	0.4 mA
Ċ	Maximum Continuous Discharge Current	7 mA
٠	Maximum Pulse Discharge Current at 1 sec	25 mA
Υ	Nominal Energy	1.8 Wh

PHYSICAL CHARACTERISTICS

Typical weight 6.3 g (0.22 oz.)

Li metal content approx. 0.18 g

OPERATING & STORAGE CONDITIONS

Operating temperature range -20°C to 60°C (-4°F to 140°F)

Recommended Storage

Storage area should be clean, cool

(preferably not exceeding +30°C), dry and ventilated

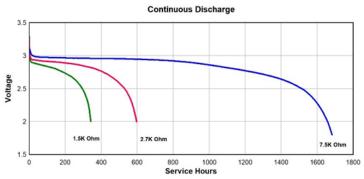
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

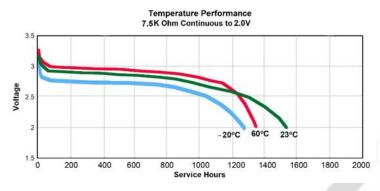
5°C to 30°C

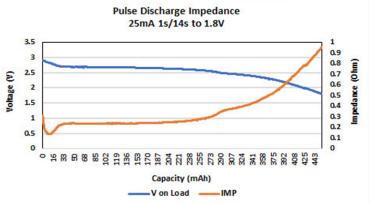
(41°F to 86°F)











Warning

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble heat above 100°C (212°F), incinerate or expose contents to water

Warning! Keep batteries away from children!

- Always keep your batteries away from children to prevent Swallowing.
- If ingestion does occur, however, be aware that initial symptoms may be similar to other childhood illnesses such as coughing, drooling and discomfort.
- Battery ingestion hotline (1-800-498-8666).

TYPICALAPP

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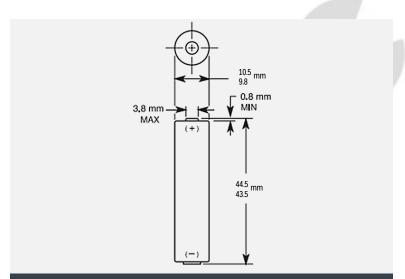
Test	Test designation	Observation
А	Altitude	Pass
В	Thermal cycling	Pass
С	Vibration	Pass
D	Shock	Pass
Е	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
Н	Forced discharge	Pass
- 1	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AAA (LR03) PC2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Remote Controls
- Sensors
- Security keypads
- Wireless mouse

ELECTRICAL CHARACTERISTICS

Nominal capacity (43 Ω Cont., .8V cut-off)

1,262 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

125 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

11.6 g (0.4 oz)

Typical volume

3.5 cm³ (0.2 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

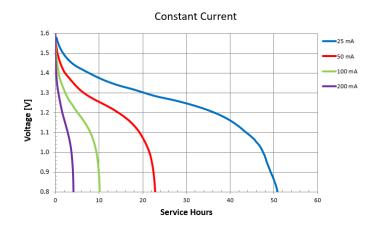
5°C to 30°C (41°F to 86° F)

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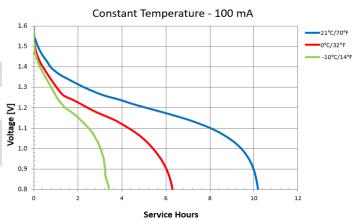
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

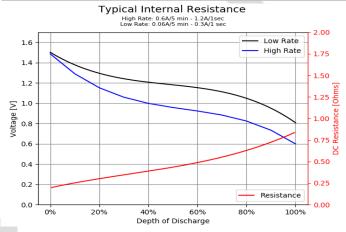












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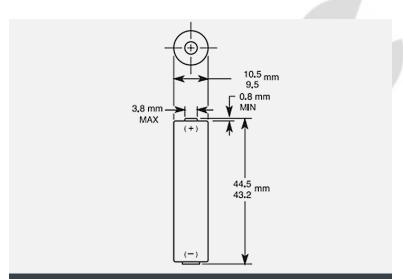
www.procell.com

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





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- Wireless mouse

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1,262 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

125 mΩ

PHYSICAL CHARACTERISTICS

Typical weight 11.6 g (0.4 oz)

Typical volume
 3.5 cm³ (0.2 in³)

TerminalsFlat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86° F)

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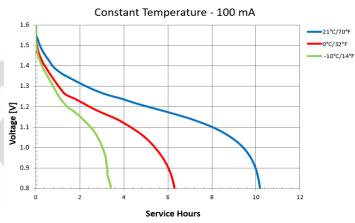
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

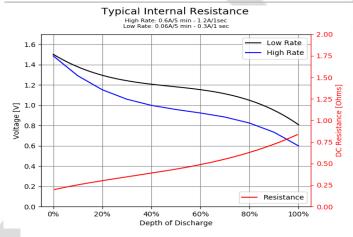












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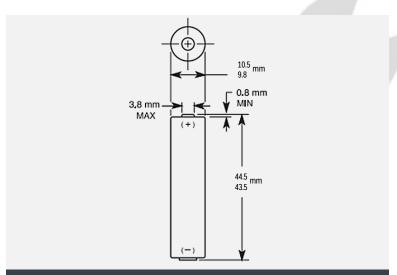
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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AAA (LR03) PX2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Blood pressure monitors
- Soap dispensers
- Flashlights
- Pulse oximeters

ELECTRICAL CHARACTERISTICS

Nominal capacity (5 mA Cont., .8V cut-off)

1,461 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

 $129~\mathrm{m}\Omega$

PHYSICAL CHARACTERISTICS

Typical weight

11.6 g (0.4 oz)

Typical volume

3.5 cm³ (0.2 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

5°C to 30°C (41°F to 86° F)

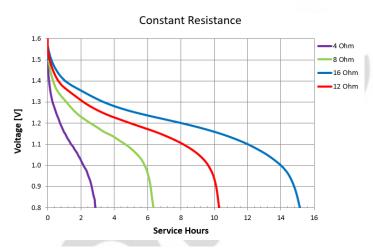
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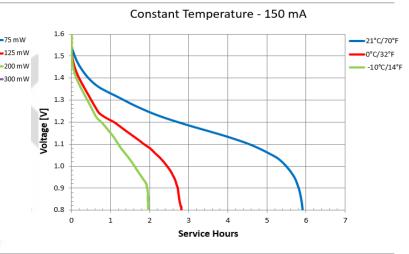
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



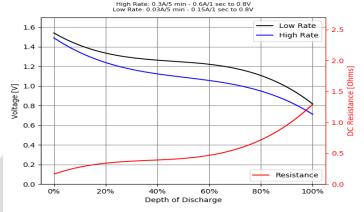




Constant Power 1.6 75 mW -125 mW 1.5 -200 mW 1.4 1.3 Voltage [V] 1.2 1.1 0.9 0.8 0 5 15 20 10 Service Hours



Typical Internal Resistance



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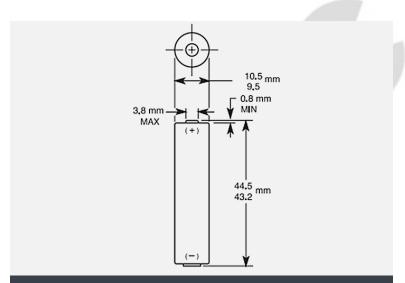
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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.





Size: AAA (LR03) PX2400



Dimensions shown are IEC standards

KEY FEATURES

- Reliable Performance
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environmental standards:
 - o Safety: IEC 60086-5
 - o ANSI C 18.1M, Part-2
 - o EU Battery Directive
 - Quality: ISO 14001 and 9001, Duracell World Class Continuous Improvement Program

TYPICAL APPLICATIONS

- Blood pressure monitors
- Soap dispensers
- Flashlights
- Pulse oximeters

ELECTRICAL CHARACTERISTICS

Nominal capacity (5 mA Cont., .8V cut-off)

1,461 mAh

Typical Voltage (at + 20 °C)

1.5 V

AC Impedance @ 1kHz

129 mΩ

PHYSICAL CHARACTERISTICS

Typical weight

11.6 g (0.4 oz)

Typical volume

3.5 cm³ (0.2 in³)

Terminals

Flat

OPERATING & STORAGE CONDITIONS

Operating temperature range

-20°C to 54°C (-4°F to 130°F)

 Recommended Storage (storage area should be clean, cool, dry and ventilated)

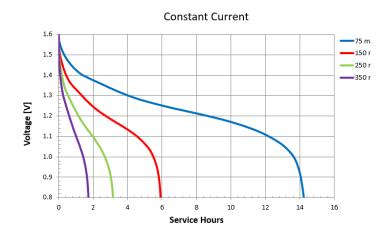
5°C to 30°C (41°F to 86° F)

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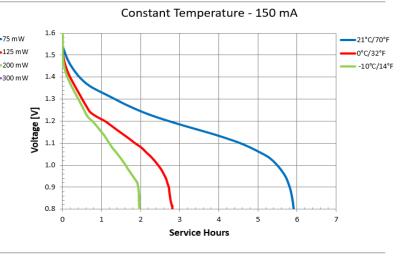
Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.



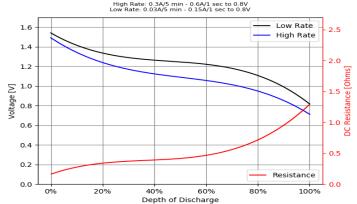




Constant Power 1.6 1.5 1.4 1.3 Voltage [V] 1.2 1.1 0.9 0.8 20 0 5 10 15 Service Hours



Typical Internal Resistance



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Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.