





# Panasonic

POWER YOUR DAY











# PANASONIC BATTERIES YOUR POWER PARTNER

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# **Panasonic**



# 100<sup>th</sup> Anniversary

#### The times have changed. Our intentions have not.

It all began 100 years ago. Panasonic's history started from the thought "We wish we could use lights and appliances at the same time." And now, our principle of adding a little more brightness to our lives remains unchanged. As our second century dawns, we're ready.

Panasonic was founded in 1918 by **Konosuke Matsushita**. That year, Panasonic introduced an improved attachment plug, which allowed people to power an electrical appliance from a light socket. Next was a double cluster socket that made it possible to power lights and appliances from a single source. Our principles of making life ever more comfortable originated from these small ideas.

Panasonic's 100th anniversary is upon us. To address the changing times, we continue to develop the products of the future worldwide, always cherishing the principles our founder defined for us one century ago.



# A Better Life, A Better World

Panasonic is committed to creating a better life and a better world, continuously contributing to the evolution of society and to the happiness of people around the globe.









# Panasonic Worldwide Group

#### Worldwide leading enterprise

Panasonic Corporation is one of the largest electronic product manufacturers in the world. It manufactures and markets a wide range of products under the Panasonic brand to enhance and enrich lifestyles all around the globe.

**Company name:** Panasonic Corporation

**Head office location:** Osaka – Japan

**President:** Kazuhiro Tsuga

Foundation: March, 1918 (incorporated in December, 1935)

**Net sales**<sup>(1)</sup>: 7,343.7 billion yen

Number of employees<sup>(1)</sup>: 257,553

Number of consolidated companies<sup>(1)</sup>: 496 (including parent company)

#### Panasonic - A powerful Global Brand

Best Regarded
Company
of the 2017 Forbes
Global 2000 List

75th Best Global Brand 2017\*

\* Source: www.interbrand.com (1) as of March 31, 2017

















# Creating New Life with Energy

Batteries are essential to daily life. All around us, in the devices we need to work and play, Panasonic Energy is helping us not only to live, but to flourish. For more than 100 years, we've been creating products most trusted for performance, safety, and reliability. Our technology is driven by continuous research and development as we find new ways to extend endurance. Passion for quality has led to the supply of over 210 billion dry-cell batteries\* to more than 120 countries, establishing Panasonic as the premier brand for convenience and value. With superior technology and a firm commitment to sustainability, we're leading the world to new life and new possibilities. \*As of end of June 2017



BATTERY CATALOGUE

#### Leading Energy Solutions for the Future

Panasonic's vision for the future centers on the need to develop products that offer greater convenience, a higher level of performance, and improved environmental sustainability. And we're already delivering on that promise. Some recent examples include the supply of next-generation lithium-ion batteries for Tesla Motors' electric vehicles, the development of wireless charging devices for mobile users, and our ever-increasing involvement in solar energy—and how we can use it to help people in remote areas. It's the dawn of a new and exciting era for Panasonic and the global community.









# Historical highlights

Take a tour of the products and events that shaped Panasonic's evolution as a world-leading brand, driven forward by continuous innovation.

> Matsushita Electric incorporated and a sister company, Matsushita Dry Cell Corporation, was established.



1935



#### 1923

#### First battery-powered shell lamps released

In 1923, Konosuke Matsushita, founder of the business that became Panasonic, developed a breakthrough shell lamp for bicycles. A special battery assembly and new bulb provided 30 hours of operation, where two to three hours was average at the time



1954

Released National Hyper, Japan's first fully metal-jacketed dry battery

National Hyper was born.



production of Cadnica Ni-Cd batteries 1964 unifying effort in product development, the

innovation.

life with energy.

1969

National NEO

manganese dry

batteries debuts

Hi-Top

Commenced

Research into a battery with capacity three times that of Hyper and 1.5 times that of

Hi-Top began immediately. After five years of intensive work, the NEO Hi-Top was released. With 918 patents and utility models, it boasted

1967

National Hi-Top manganese dry battery released

Following Hyper, the next challenge was batteries with twice the

shelf life of existing products. Working within size limits and over-

coming difficulties with chemical composition, engineers unveiled

National Hi-Top, a "miracle" battery resistant to self-discharge and leakage that performed brilliantly in heat, cold, and humidity.

the world's longest battery life.

(graphite fluoride BR line) 1971

Developed lithium

primary batteries

Released Pananica Ni-Cd batteries

Alkaline batteries released, developed

compact sealed lead-acid batteries

Started production of coin lithium batteries for clocks, calculators, etc. 1970

1980

the world's first amorphous silicon solar cells



Started in-house production of dry batteries due to increased demand. Introduced the battery brand National



1937

Automotive

released

lead-acid batteries

for the square lamp.

931

1918

Matsushita Electric Housewares Manufacturing Works Established.

Higher quality. Better performance. Superior protection.

From our first battery lamp developed in 1923 by company founder Konosuke Matsushita to the latest Ni-MH cells powering next-generation electric vehicles, innovation has been Panasonic's guiding light.





Commenced mass production of cylindrical lithium batteries for cameras

1981

Panasonic Energy Device Business Division plays a vital role in the business of Panasonic Corporation, a trusted brand that

grew from battery production a century ago. Our unparalleled know-how is reinforced by a culture of continuous innovation to develop new products offering increasingly better quality. Sold all over the world, Panasonic batteries are now made in

19 facilities in 13 countries. As we look toward the next 100 years with optimism, Panasonic affirms our commitment to

With a range of solutions to meet your needs in demanding applications and in any conditions, we continue to create new

> Matsushita Battery Industrial Co., Ltd. established

1979

Focusing on the future Konosuke Matsushita expressed a desire to "consider the future of batteries, then re-establish our battery businesses in every aspect" with the goal of becoming "the world's leading comprehensive battery manufacturer.'



lithium battery for fishing floats 1976 0000

Developed

pin-type

1978

Started production of

#### 1991

#### Mercury-free manganese batteries released



With growing awareness about the need for corporations to unite in an effort to reduce environmental impact. Panasonic forged partnerships with the US and Europe towards developing ecologically responsible products, leading the way with safe and eco-friendly mercury-free manganese batteries.

High-current

Panasonio

Alkaline

batteries

1995



Rechargeable eneloop released to the market



2014 Panasonic eneloop goes global Rechargeable eneloop gains global distribution via the Panasonic network and sales continue to climb as consumers recognize the benefits

2015

Solar storage system launches Panasonic eneloop's most advanced, cost-effective portable device recharging solution and long-lasting solar LED light is launched with the specific objective of bringing safe and reliable light to people without electrical access



of low cost and high performance.

2005



Released solar LED lantern

2013

Panasonic releases a multi-award-winning Solar LED Lantern. The two-piece lamp and solar panel product was able to supply hours of efficient illumination in areas with no access to electricity.

Released EVOLTA NEO batteries



2018



Released Ultra Alkaline and Panasonic Alkaline batteries

1987



Started production of high-temperatureresistant coin lithium batteries for AV devices, backup and in-vehicle installation

1997



Developed multi-purpose lithium-ion battery modules



Panasonic celebrates 100 years of innovation

Panasonic celebrates its 100-year anniversary, a milestone in a journey defined by continuous, unflagging innovation with a goal of ever-improving product quality. The company looks with optimism towards the next century and the improvements to quality of life it will bring to customers around the world.





Released mercury-free alkaline batteries



2004

Released

**OXYRIDE** 

dry battery

2008

Released EVOLTA alkaline dry batteries Panasonic Corporation Energy Company established



eneloop

440 million More than 440 million eneloop rechargeable batteries shipped

More than 210 billion dry batteries sold in 120 countries...

210 billion

Assuming a 5 cm average length and laid end-to-end, a total of 210 billion dry batteries

10,500,000 km



That's thirteen times to the moon and back.

Please see Panasonic Battery Global Website for further details.

#### 1989

coin battery for AV devices and backup

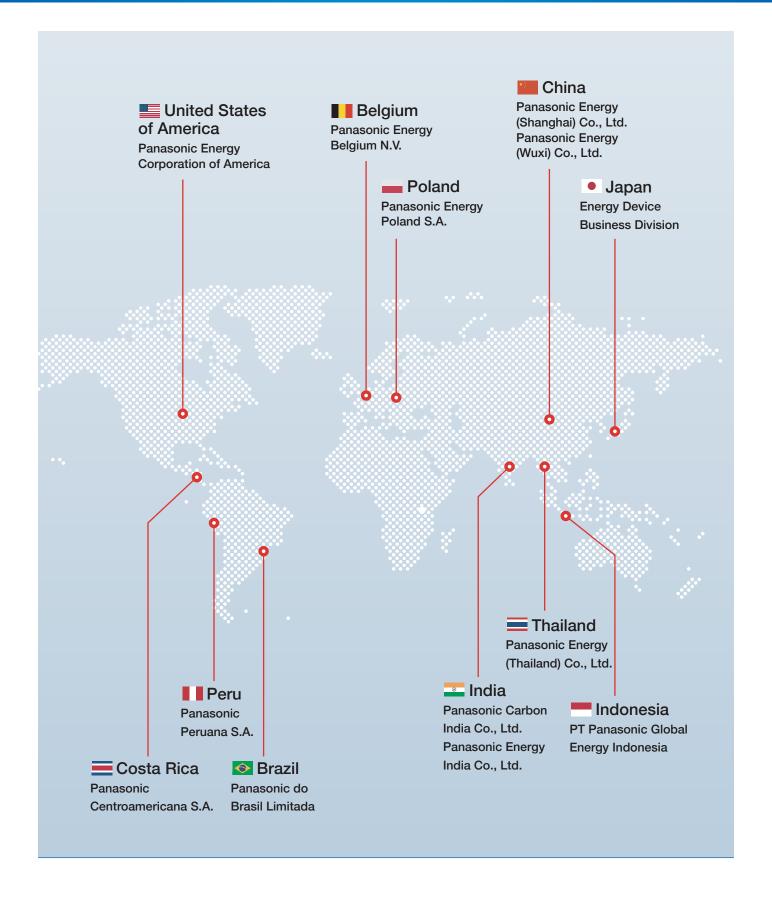
Nickle-metal hydride batteries developed Development of more compact and light-weight batteries was achieved by downsizing and diversifying production equipment, leading to the release of a nickel-hydrogen storage cell and lithium-ion secondary battery.



Development rechargeable lithium



# Panasonic Energy Divisions around the World



10 BATTERY CATALOGUE

# An Advanced Global Approach to Battery Production

Panasonic's holistic approach to manufacturing encompasses four key areas—research and development, production, quality control, and environmental effort—at a number of state-of-the-art facilities around the world. Guiding principles of continual product improvement and the strictest quality control are governed by our desire to deliver premium products to customers with minimal impact on the environment.

#### Research & Development

#### **Developing High-Quality, High-Capacity Batteries**

Continual research and development in all areas, from materials, production processes, and system technology at our dedicated lab facilities has kept Panasonic at the very forefront of battery design.

A focus on improving battery safety and endurance has led to high-value products that exceed expectations in every area.





#### Producing Products Without Specified Harmful Substances

Panasonic zinc carbon batteries contain no lead, mercury or cadmium, while our coin batteries contain zero mercury.





#### Manufacturing

#### **Integral Computer-Controlled Production Lines**

Almost all batteries in the Panasonic family are made on fully automated and computer-controlled production lines for superior consistency of quality and greater efficiency.





#### **Contaminant-Free Clean Facilities**

The vast majority of production takes place in contaminant-free clean rooms that exceed all industry environmental standards. Advanced manufacturing techniques ensure the same highly consistent quality no matter where our products are purchased.





#### **Quality Control**

#### **Pursuing Better Quality Batteries**

More than two million batteries are produced and tested worldwide each year. We lead the industry in product quality with larger-scale testing facilities than our competitors. Furthermore, all batteries are subjected to severe five-category testing covering discharge performance, leakage resistance, shelf life, performance in extremal environments, and product stability over time.





#### **Environmental Efforts**

#### **Eco-Friendly Processes and Design**

We limit our impact on the environment in a variety of ways:

• Reducing CO2 during production processes (Kasai Factory)





 Recycling resources (Wuxi Factory)





 ISO14001\* and ISO9001 certification for all factories

We keep working and investing to

POWER YOUR DAY

#### Panasonic Energy: Global Promotion 2018

#### **Panasonic**



A CENTURY OF RELIABILITY

Since our founding in 1918, Panasonic has been dedicated to improving people's lives and to helping society progress.

We are now celebrating our 100th anniversary, thanks to all of our customers' support. At Panasonic, we will continue to challenge ourselves, with unchanged hearts, as we aspire to "A Better Life, A Better World".



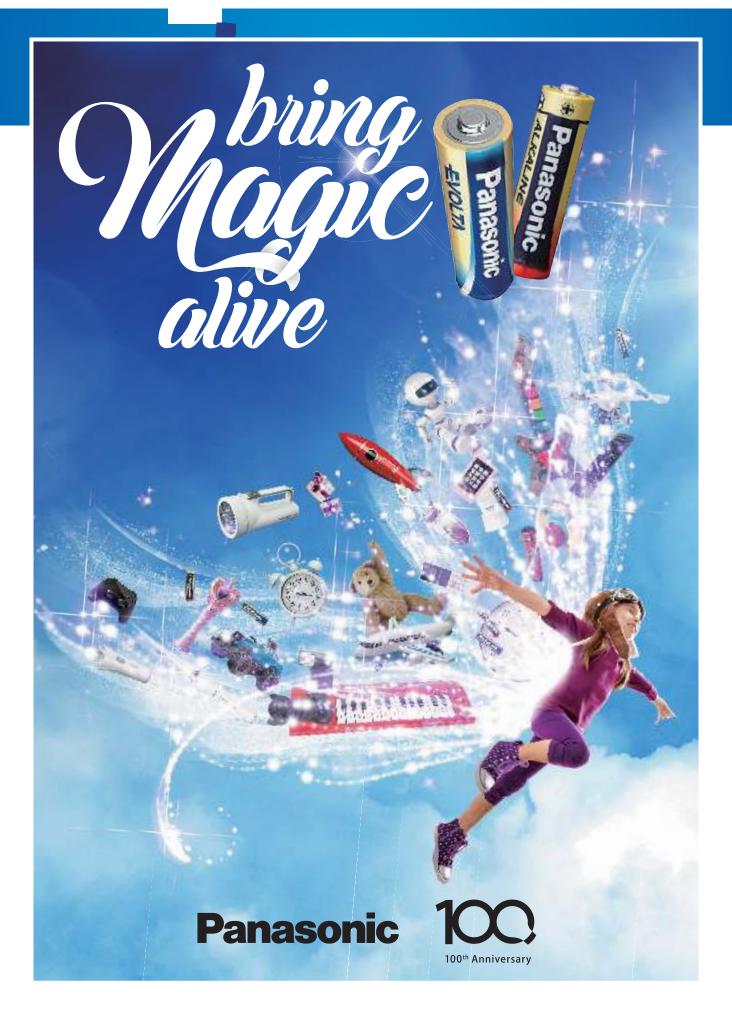
#### **Bring Magic Alive**

Batteries are perceived as little magical instruments that give power to different appliances.
With its technical expertise, Panasonic wants to make the magic tangible.

That's why we have chosen the theme "Bring Magic Alive" for the 100 Years Anniversary campaign of Panasonic Batteries.

To highlight the magic even more, Panasonic Energy Europe is proud to announce the official partnership with *Cirque du Soleil*®.

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## Panasonic Energy: Official Partner of Cirque du Soleil<sup>1</sup>

#### WHY WE LOVE THE FIT WITH CIRQUE DU SOLEIL®



It all started with a dream ...

(for both Panasonic and Cirque du Soleil)

Combining the unique design of Cirque du Soleil with Panasonic's high performing batteries

**Outstanding** look & feel

ideal in "reminder" category

#### USE OF BATTERIES IN THE CIRQUE DU SOLEIL® SHOWS

#### **SOUND EQUIPMENT**

Microphones and speakers used by the band during the shows



LIGHTING

Headlights for the crewmembers, certain props/chandeliers

#### **AUDIO**

Headsets and earpieces



#### ABOUT CIRQUE DU SOLEIL®

**EUROPE** 

**GLOBAL** 

110 CITIES

+5K PERFORMANCES

+10M ATTENDEES

30

+600 +2M PERFORMANCES YEARLY

ATTENDEES

FANS ON **NETWORKS** 

9M

SOCIAL

175K DAILY VIEWS ON THE CdS

ONLINE

YOUTUBE CHANNEL

80K DAILY WFRSITF

YEARLY

94% AWARENESS AMONGST LIVE **ENTERTAINMENT BUYERS** 

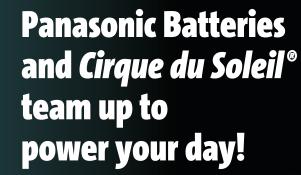
8.8/10

BRAND LOVE



65% REPEAT

**INDEX** 





CIRQUE DU SOLEIL



(1) Participating regions: Europe, USA, Canada, Oceania and Taiwan.

#### Shopper insights

#### Purchasing behaviour

buy only offline





6%

buy both offline & online





Research has shown that consumers have specific purchase behavior according to which products they buy. Some purchases are planned in advance, some are **impulse** – you are triggered in the store – and some fit in the **reminder** category – you know in advance you need to buy something, but you are reminded again in the store or in the online shop that you need this product. Batteries are found in this last category. That's why in-store visibility is very important. The Cirque du Soleil designs help us to stand out.



#### **PLANNED**

I planned to purchase this product before I arrived at the store and added it to my shopping list.

Deliberate, thoughtful search and evaluation that results in rational. accurate and better decisions







#### REMINDER

I want to purchase this product, but only recalled the need in the store.

Decision is made after reminder instore



#### **IMPULSE**

I decided to buy this product when I was in the store. No prior plans to purchase.



Consumer is not actively searching for this product.



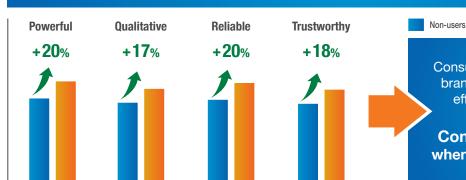
**74%** of the consumers never look for information before purchasing and make a decision in store

Visibility in store is very important 26% do search for information in advance

9% actively

17% passively

#### Panasonic Brand Values - users vs. non-users



Consumer research shows us that tested brand values score better once people effectively have tried our batteries.

Users

Consumers are highly satisfied when they use Panasonic batteries.

Source: PECE consumer/shopper researches 2009-2017

# Panasonic Energy Europe, your Professional Battery Partner

#### Panasonic Energy Europe: Headquarters

Panasonic Energy Europe is the European headquarter for consumer batteries and responsible for marketing, sales and distribution of consumer batteries for the whole of Europe. Panasonic Energy Europe is an important division of the Japanese company Panasonic Corporation, which is one of the largest and leading electronic product manufacturers in the world.

Since our foundation in 1918 Panasonic is recognized as an energetic, creative and proactive organization that consistently aims to exceed its customer's expectations, to translate its vision into providing products and solutions based on ideas that will enrich people's lives around the world through innovative thinking.



#### Our Mission

Being a leader in the **consumer battery category**, our **team** is passionate to bring as a **trusted partner**, expertise and superior **solutions** to our **individual customers** to achieve their **specific business needs**.

Our ultimate reward is to put a smile on the consumer's face as they enjoy our top performing products.



# Panasonic Energy Europe, your Professional Battery Partner

Consumer understanding

Expert in category management

Top class supply chain management

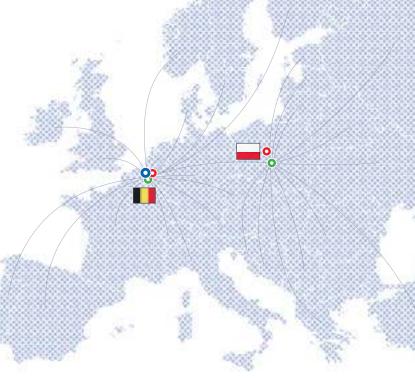
dedicated
Sales & Marketing
organization
covering total
Europe

16

### Panasonic Energy Europe, your Professional Battery Partner

#### An Organization 100% **Dedicated to Batteries**

- BUSINESS: a battery dedicated company
- INTEGRATION: Unified production, logistics and sales support
- LOCAL MANUFACTURING: two European production sites:
  - Local flexibility and short delivery times
  - In line with EU quality and environmental standards
- DISTRIBUTION:
  - European distribution centres in Belgium and Poland



- Panasonic Energy Europe nv HQ
- Panasonic Battery Factory
- Panasonic European Distribution Centre

#### A CLOSER LOOK AT OUR FACTORIES









#### **BELGIUM FACTORY**

Located in: Tessenderlo, Belgium September 29th 1970 Established in: Number of employees: 360 employees



Highly automated production of batteries from basic raw materials till labelling and packaging.

#### POLAND FACTORY

Located in: Gniezno. Poland Established in: December 15th 1993 Number of employees: 344 employees Highly automated production of zinc carbon and alkaline batteries, based on Panasonic's latest

sustainable technologies, which gives high precision and accuracy to the battery manufacturing process.

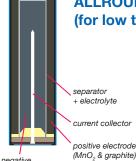
Also check our PECE movie on YouTube: https://youtu.be/0XEUJPjSRi4.

## Panasonic Energy Europe: Technical Expertise

#### NON-RECHARGEABLES (PRIMARY)

#### **ALKALINE** (p. 20-29)

1.5V/4.5V/9V



- **ALLROUND BATTERY** (for low to high drain appliances)
  - · Technology developed in 1957
  - Negative electrode = zinc gel + additives
  - · Positive electrode = high density MnO<sub>2</sub>
  - · Electrolyte inside the separator for smoother reaction
  - Advanced structure with more components vs. zinc

#### 4 Panasonic grades, specific for every type of appliances



High premium grade, especially designed to ensure optimal performance for highest drain



negative

ALKALINE RANGES

electrode (zinc)

Premium grade, developed to provide reliable and dependable power for all middle to high drain appliances.

Everyday Power

Performs well in devices with low and continuous energy consumptions.

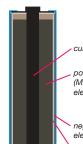




Provides energy for your basic needs.

#### ZINC CARBON (p. 30)

1.5V/4.5V/9V



#### **BEST USED IN** LOW DRAIN APPLIANCES

current collector

positive electrode (MnO<sub>2</sub> mixed with electrolyte)

negative electrode (zinc)

- Technology developed in 1876
- Negative electrode = zinc can
- Positive electrode = MnO<sub>o</sub>
- · Electrolyte inside the positive electrode
- · Basic structure

#### RECHARGEABLES (SECONDARY)

#### Ni-MH (p. 32-41)

**1.2V** 



- Technology developed in 1989
- · Coiled positive electrode, separator and negative electrode results in less internal resistance

#### 4 Panasonic grades, specific for every type of appliances

for high current consuming devices.

#### Ready to Use

negative

RANGES

RECHARGEABLE

electrode (MH)

separator

(NIOOH)

positive electrode

min. 2450mAh (AA) min. 900mAh (AAA)

#### Ready to Use

min. **1900**mAh (AA) min. **750**mAh (AAA) Ready to use, designed for frequent use, in high to medium appliances which need frequent recharging.

Ready to Use min. IOOOmAh (AA) and telephone batterie

Ready to use, designed for occasional use or use

Optimal for heavy users who need batteries frequently

#### **High Capacity**

Avg. Ni-MH. **2700** (AA) Avg. Ni-MH. **1000** (AAA)

in appliances which undergo frequent or constant charging - especially DECT phones.

Perfect batteries for appliances in need of very high power.

**ECO-FRIENDLY:** rechargeable up to 1000 times and more

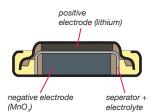


#### SPECIALTY BATTERIES (DRY-CELL - PRIMARY)

#### COIN LITHIUM (p. 44)

**3V** 

#### **IDEAL BATTERY FOR SMALL, ENERGY-HUNGRY APPLIANCES**



- · High energy density
- · Long storage life
- · No deterioration
- · Low self discharge
- Positive electrode = lithium
- Negative electrode = MnO<sub>2</sub>
- · Suitable for high drain, low drain, pulsed devices

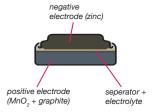
lithium based

#### MICRO ALKALINE (p. 48)

SILVER OXIDE (p. 50)

1.5V/12V

#### **ALLROUND COIN BATTERY** (for low to high drain appliances)



- · Equal construction as standard size alkaline battery
- · Stable discharge
- · Excellent leakage resistance
- Negative electrode = zinc
- Positive electrode = MnO<sub>o</sub>

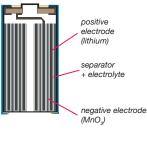
zinc based

1.55V/6.2V

#### CYLINDRICAL LITHIUM (p. 46)

3V/6V

#### PREMIUM LITHIUM BATTERY FOR ENERGY-HUNGRY APPLIANCES



- 3 to 5 times higher energy density than standard size alkaline batteries
- · Excellent performance in extreme temperatures (-40°C to +70°C)
- Positive electrode = lithium
- Negative electrode = MnO<sub>a</sub>

\*example shown: CR-123

lithium based

#### PREMIUM COIN BATTERY (for low to high drain appliances) negative electrode (zinc)

positive electrode (silver oxide + graphite)

- · Higher energy density
- · Stable discharge
- · Excellent leakage resistance
- Negative electrode = zinc
- · Positive electrode = silver oxide
- · Extra alkaline electrolyte

zinc based

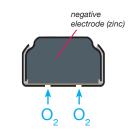
#### **ZINC AIR (p. 52)**

ator 1

electrolyte

1.4V

#### **EXCELLENT FOR HEARING AID**



- · Highest energy density of all electrochemical systems
- · Chemical reaction with oxygen activates the battery
- · Only 1 of the active materials inside the battery
- Negative electrode = zinc

zinc based





#### **Protect Your Precious Things**

#### Unique Gas-Suppression Technology

Panasonic Alkaline cells feature advanced Anti-Leak Protection that suppresses gas buildup when a battery is over-discharged or stored for a long period. Less pressure means less chance of structural failure and rupture, and protects your valuable devices from damage.

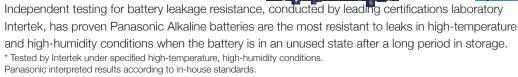


## Store Batteries Safely for Up to 10 Years (2)

You can depend on Panasonic Alkaline batteries to retain high power performance even after very long periods in storage. High-quality materials work to prevent degradation while Anti-Leak Protection minimizes the chance of leakage to ensure long-life stability before use.



# PANASONIC BATTERIES PERFORM BEST IN INDEPENDENT LEAK TESTING





#### Quality & Performance Mark for EVOLTA



Note: Pro Power battery also certified



For more information about Intertek testing, visit the Intertek website.

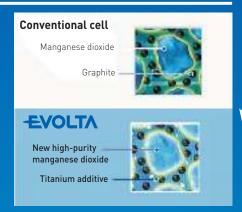
20 BATTERY CATALOGUE

# **EVOLTA**'s Technical Innovations



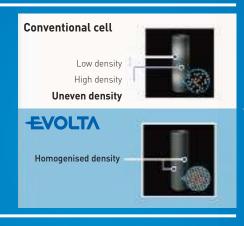
#### **Material Evolution**

Thanks to combining exclusive high-reactive ingredients (such as titanium) and high-purity manganese dioxide, the EVOLTA battery succeeds to generate extra voltage for power-hungry devices.



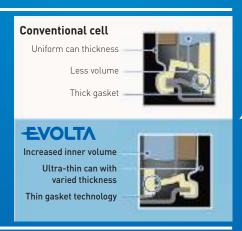
#### **Engineering Evolution**

With an homogenised filling density inside the EVOLTA batteries, the current is allowed to flow with much greater consistency, keeping these batteries working when competition has given up.



#### **Structural Evolution**

With an improved structural design which reduces the gasket and can size, there is a lot more space for active ingredients resulting in longer lasting performance. A strong internal structure and a tough outer coating ensures far better impact resistance.





All these technical innovations make EVOLTA one of the LONGEST LASTING BATTERIES

# **EVOLTA**



The EVOLTA concept is a combination of "evolution" and "voltage" (power) – how our technology has grown to become pre-eminent in the industry.

EVOLTA is not just the No.1 Panasonic battery; it consistently outperforms our competitors' premium products in commonly accepted independent performance tests.



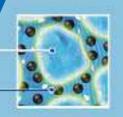
# OUR NOT LONGEST LASTING ALKALINE BATTERY (1)

#### 3 Technological Evolutions

#### **Material Evolution**

New high-purity manganese dioxide

Titanium additive



#### **Engineering Evolution**

Homogenised density



#### **Structural Evolution**

Increased inner volume

Ultra-thin can with varied thickness

Thin gasket technology





LR03EGE AAA



LR6EGE



LR14EGE C



LR20EGE D



6LR61EGE 9V

POWER PROTECTION 1 YEARS (1) FOR UP TO

(1) Keeps energy for up to 10 years when not used.





#### Specifications:





Ability to remove either 2 or 4 batteries for easy storage. With perforated strip for easy opening.

STERS	Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Pallet
BLIS	LR03 / AAA	5410853044796	LR03EGE/8BW 4+4F	8	12	360
ш		5410853059226	LR03EGE/8BW 5+3F	8	12	360
MID		5410853044802	LR03EGE/8BW 6+2F	8	12	360
	LR6 / AA	5410853044727	LR6EGE/8BW	8	12	256
		5410853044703	LR6EGE/8BW 4+4F	8	12	256
		5410853059219	LR6EGE/8BW 5+3F	8	12	256
		5410853044710	LR6EGE/8BW 6+2F	8	12	256



High impact packaging with optimal product visibility & promotional message.

# Panasonic Panasonic Panasonic Panasonic Panasonic Panasonic Panasonic

#### **EVOLTA** is most suitable for:























\* Not all of the above appliances are suitable for all battery sizes. Please check packaging first.

# **Pro** Power



The **PRO POWER** battery offers premium energy for your personal appliances. It is developed to provide reliable and dependable power, any place and any time.

With its very complete product line up, the PRO POWER battery is ideal for high and medium drain appliances.

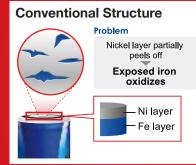


# ADVANCE

#### No Poor Connections, **No More Stress**

#### Triple Tough Coating for a Smooth Energy Flow

In conventional batteries, contact resistance on the terminals can build up and cause the nickel layer to peel off and the battery to fail. Triple Tough Coating solves this with an iron/nickel-plated alloy on the positive and negative terminals that improves adhesion and reduces contact resistance. The result? Enhanced energy flow and longer life.



#### Panasonic's Structure Solution Alloy layer prevents iron oxidation Oxidation is minimized Ni layer Fe-Ni alloy layer Fe layer







# STANDARD BLISTERS

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
LR03 / AAA	5410853040125	LR03PPG/2BP	2	12	5	164
	5410853039006	LR03PPG/4BP	4	12	5	164
	5410853040156	LR03PPG/6BP 4+2F	6	12	-	410
LR6 / AA	5410853039891	LR6PPG/2BP	2	12	5	114
	5410853038948	LR6PPG/4BP	4	12	5	114
	5410853039921	LR6PPG/6BP 4+2F	6	12	-	304
LR14 / C	5410853038917	LR14PPG/2BP	2	12	5	75
LR20 / D	5410853038887	LR20PPG/2BP	2	12	5	40
6LR61 / 9V	5410853038979	6LR61PPG/1BP	1	12	5	84
	5410853041573	6LR61PPG/2BP	2	12	5	84
3LR12 / 4.5V	5410853039037	3LR12PPG/1BP	1	12	4	80



Ability to remove either 2 or 4 batteries for easy storage. With perforated strip for easy opening.

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Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Pallet
LR03 / AAA	5410853040170	LR03PPG/8BW	8	12	360
	5410853059103	LR03PPG/8BW 5+3F	8	12	360
	5410853040194	LR03PPG/8BW 6+2F	8	12	360
	5410853048497	LR03PPG/10BW 6+4F	10	12	360
	5410853040231	LR03PPG/12BW	12	12	360
	5410853040255	LR03PPG/12BW 8+4F	12	12	360
	5410853058977	LR03PPG/16BW 10+6F	16		
LR6 / AA	5410853039945	LR6PPG/8BW	8	12	256
	5410853059097	LR6PPG/8BW 5+3F	8	12	256
	5410853039969	LR6PPG/8BW 6+2F	8	12	256
	5410853048480	LR6PPG/10BW 6+4F	10	12	256
	5410853040002	LR6PPG/12BW	12	12	256
	5410853040026	LR6PPG/12BW 8+4F	12	12	256
	5410853058960	LR6PPG/16BW 10+6F	16		
LR14/C	5410853041504	LR14PPG/4BW	4		
LR20 / D	5410853041481	LR20PPG/4BW	4		



High impact packaging with optimal product visibility & promotional message.

PECIAI PACK

Model N°	CSU EAN	Re-order N°	Batteries/ CSU	CSU's/ Carton	Cartons/ Pallet
LR03 / AAA	5410853049487	LR03PPG/24PD	24	12	160
	5410853058434	LR03PPG/30BB	30	12	-
LR6 / AA	5410853049463	LR6PPG/24PD	24	12	96
	5410853058373	LR6PPG/30BB	30	12	-



Multiple use: in shelf, basket, underneath shelf.

#### PRO POWER is most suitable for:





















\* Not all of the above appliances are suitable for all battery sizes. Please check packaging first.

# **Everyday** Power



Panasonic's **EVERYDAY POWER** battery is an ideal power solution for commonly used devices. It provides reliable and dependable power.

**EVERYDAY POWER** batteries have an excellent price versus quality ratio.









LR6EPS AA



LR14EPS C



LR20EPS D



6LR61EPS 9V



(1) Keeps energy for up to 10 years when not used.





#### Specifications:

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
LR03 / AAA	5410853024750	LR03EPS/2BP	2	12	5	164
	5410853048077	LR03EPS/4BP	4	12	5	164
LR6 / AA	5410853024705	LR6EPS/2BP	2	12	5	114
	5410853047964	LR6EPS/4BP	4	12	5	114
LR14 / C	5410853047827	LR14EPS/2BP	2	12	5	75
LR20 / D	5410853047810	LR20EPS/2BP	2	12	5	40
6LR61 / 9V	5410853047971	6LR61EPS/1BP	1	12	5	84



Ability to remove either 2 or 4 batteries for easy storage. With perforated strip for easy opening.

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Pallet
LR03 / AAA	5410853048015	LR03EPS/8BW	8	12	360
	5410853048008	LR03EPS/8BW 6+2F	8	12	360
	5410853049340	LR03EPS/10BW 6+4F	10	12	360
	5410853051770	LR03EPS/12BW	12	12	360
	5410853048039	LR03EPS/16BW	16	6	360
LR6 / AA	5410853047889	LR6EPS/8BW	8	12	256
	5410853047872	LR6EPS/8BW 6+2F	8	12	256
	5410853049326	LR6EPS/10BW 6+4F	10	12	256
	5410853051763	LR6EPS/12BW	12	6	256
	5410853047902	LR6EPS/16BW	16	6	256



High impact packaging with optimal product visibility & promotional message.



#### **EVERYDAY POWER is most suitable for:**















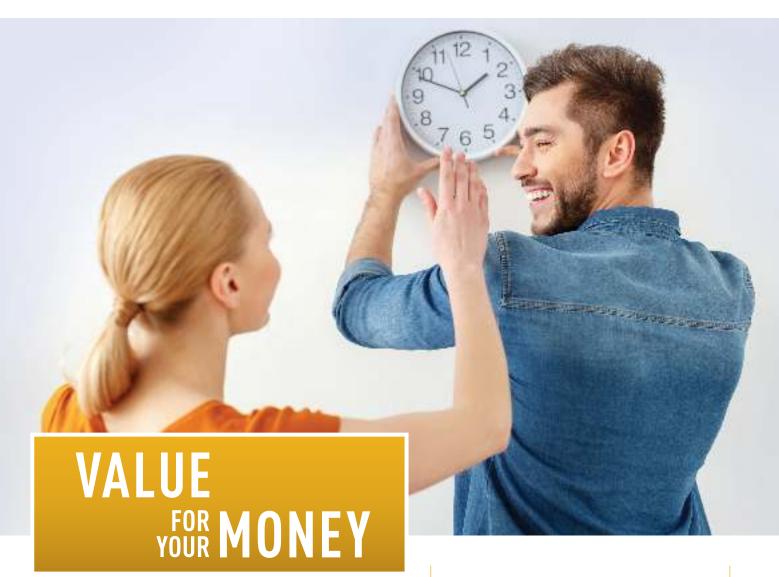
\* Not all of the above appliances are suitable for all battery sizes. Please check packaging first.

# Alkaline Power



Panasonic's **ALKALINE POWER** battery is a value for money solution for everyday appliances.

It provides reliable and dependable power, and has an excellent price versus quality ratio.

















6LR61APB 9٧



(1) Keeps energy for up to 7 years when not used.



#### Specifications:

STANDARD BLISTERS

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
LR03 / AAA	5410853042907	LR03APB/2BP	2	12	5	164
	5410853039334	LR03APB/4BP	4	12	5	164
LR6 / AA	5410853042259	LR6APB/2BP	2	12	5	114
	5410853039273	LR6APB/4BP	4	12	5	114
LR14 / C	5410853039242	LR14APB/2BP	2	12	5	75
LR20 / D	5410853039211	LR20APB/2BP	2	12	5	40
6LR61 / 9V	5410853039303	6LR61APB/1BP	1	12	5	84



Ability to remove either 2 or 4 batteries for easy storage. With perforated strip for easy opening.

WIDEBLISTEF

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Pallet
LR03 / AAA	5410853042174	LR03APB/10BW	10	12	360
	5410853043157	LR03APB/20BW	20	6	360
LR6 / AA	5410853042167	LR6APB/10BW	10	12	256
	5410853043133	LR6PPG/20BW	20	6	360



High impact packaging with optimal product visibility.

SHRINK PACKS

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
LR03 / AAA	5410853041290	LR03APB/8P	8	6	5	208
LR6 / AA	5410853041238	LR6APB/8P	8	6	5	144
LR14 / C	5410853041320	LR14APB/4P	4	6	5	88
LR20 / D	5410853041351	LR20APB/4P	4	6	5	48



Compact & value for money packaging format.











\* Not all of the above appliances are suitable for all battery sizes. Please check packaging firs

#### Zinc Carbon Red Zinc

Panasonic's **Zinc Carbon** batteries provide an economical power source for low drain devices.





#### Anti-leak protection by:

- Special sealing structure, which prevents leaking via the carbon rod or zinc can.
- The inner tube is used to prevent leaks caused by runout of the zinc can.
- Strong metallic outer can, to prevent damage caused by external pressure.

#### **USE ONLY FOR LOW DRAIN APPLIANCES!**







#### Specifications:

STERS	Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
BLIS <sup>-</sup>	RO3 / AAA	5410853032861	RO3RZ/4BP	4	12	5	164
$\cap$	R6 / AA	5410853032830	R6RZ/4BP	4	12	5	114
DARI	R14 / C	5410853032809	R14RZ/2BP	2	12	5	75
STANI	R20 / D	5410853032779	R20RZ/2BP	2	12	5	42
S	6F22 / 9V	5410853032892	6F22RZ/1BP	1	12	5	84
	3R12 / 4.5V	5410853033134	3R12RZ/1BP	1	12	4	80



Ability to remove either 2 or 4 batteries for easy storage. With perforated strip for easy opening.

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Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
RO3 / AAA	5410853034889	R03RZ/4P	4	12	5	208
R6 / AA	5410853034872	R6RZ/4P	4	12	5	114



Compact & value for money packaging format.

Panasonic's zinc carbon batteries provide an economical power source for low drain devices.

#### **PRODUCT BENEFITS**

- Simple and reliable technology
- Excellent price versus quality ratio
- Economical in terms of cost per hour for low drain appliances
- Full and comprehensive product line up
- No mercury and no lead added (1)





(1) Only for RO3RZ, R6RZ, R14RZ & R20RZ.

# Ni-MH Rechargeable Ready to Use

#### Why choose rechargeable over alkaline batteries?

A variety of batteries are available on the market. This leaves many people confused over which battery to use. It's more than just a matter of whether they're disposable or rechargeable, it's also about the best usage for each type of batteries. Alkaline and Ni-MH each have their own advantages and disadvantages.



#### **Power**

The difference in power between alkaline and rechargeable batteries is subtle, but Ni-MH batteries have a higher discharge rate. This makes them ideal for usage especially in high drain appliances.



#### Life Expectancy

Dry-cell alkaline batteries can last for a year or more, depending on the device they're powering. A Panasonic Ni-MH battery can last for several years because they can be recharged up to 1000 times<sup>(1)</sup>.



#### **Power Consumption**

Alkaline batteries lose their charge steadily. As you use the battery the voltage and amperage go down until the device starts working slower and finally dies.

Ni-MH batteries tend to keep the voltage and amperage at the same level. The power drops only when there is almost zero charge left in the battery. This gives a more steady flow of energy to the device.

PANASONIC READY TO USE RECHARGEABLE BATTERIES ARE THE BEST SOLUTION FOR REPEATED USE IN HIGH DRAIN DEVICES.

#### **EU** Directive

Rechargeable batteries put on the market from July 2012 onwards must comply with the capacity marking requirements of the EU Battery Directive 2006/66 (as amended). This means that the capacity has to be measured according to international standards and clearly mentioned on any rechargeable battery sold. All of our Panasonic rechargeable batteries comply with this capacity marking regulation because we are an honest and fully compliant supplier for your batteries.



# Panasonic rechargeable batteries are ready to use immediately after purchase

(not valid for Panasonic High Capacity)



(1) Test conditions – internal Panasonic testing IEC - AA Ready to Use 1900mAh

32 BATTERY CATALOGUE

#### Panasonic's Ready to Use rechargeable batteries



For HEAVY users



For FREQUENT users



For OCCASIONAL users



For DECT telephones



All Panasonic rechargeable batteries are pre-charged and stay charged up to 365 days. (2)

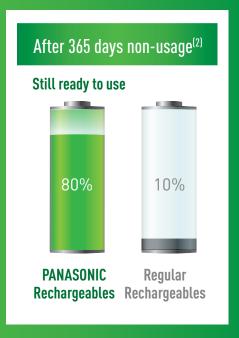
Consumer research shows that there are more product irritations on standard (non ready to use) rechargeables<sup>(3)</sup>:

- Battery capacity wears out when not often used
- Rechargeable batteries need to be charged before use

#### GREAT POTENTIAL FOR OUR READY TO USE RECHARGEABLE RANGE







All ranges of Panasonic Ready to Use are pre-charged and stay charged up to 365 days.

# Ready to Use

min. **2450**<sub>mAh</sub> (AA) - **900**<sub>mAh</sub> (AAA)







Most suitable for:













#### Offers more power

	Min. capacity mAh Cycle life		Self discharge after 1 year		
AA	2,450 mAh	Up to 500 times	80%		
AAA	900 mAh	Up to 500 times	80%		





#### Specifications:

STERS	Model N°		CSU EAN	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
STANDARD BLI	HHR-3XXE/2BC	(P-6/2BC2450)	5410853050872	2	12	5
	HHR-3XXE/4BC	(P-6/4BC2450)	5410853050865	4	12	5
	HHR-4XXE/2BC	(P-03/2BC900)	5410853050896	2	12	5
	HHR-4XXE/4BC	(P-03/4BC900)	5410853050889	4	12	5

#### **PRODUCT BENEFITS**

- Ready to use: you can use them immediately after purchase
- Stay charged: after 1 year still up to 80% of the capacity remains without charging(1)
- High capacity: up to 7x longer lasting than Alkaline(2)
- Combines 'ready to use' with 'high capacity' at the same time thanks to world's
   Nr. 1 battery manufacturer technology
- Specially designed for consumers with a focus on power
- Provide an ideal power solution for frequently used high drain applications



(1) Under domestic storage conditions. Excluding D/C

(2) Vs Panasonic Alkaline Power in digital camera mode IEC. Depends on device and usage.

**Panasonic** 

# Ready to Use

min. 1900<sub>mAh</sub> (AA) - 750<sub>mAh</sub> (AAA)











Most suitable for:









### Offers more convenience

	Min. capacity mAh	Cycle life	Self discharge after 1 year
AA	1,900 mAh	Up to 1,000 times	80%
AAA	750 mAh	Up to 1,600 times	80%





### Specifications:

Model N°		CSU EAN	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
HHR-1SRE/2B <sup>(2)</sup>	(P-20/2BC2800)	5410853034520	2	6	5
HHR-2SRE/2B <sup>(2)</sup>	(P-14/2BC2800)	5410853034537	2	12	5
HHR-3MVE/2BC	(P-6/2BC1900)	5410853045243	2	12	5
HHR-3MVE/4BC	(P-6/4BC1900)	5410853045250	4	12	5
HHR-4MVE/2BC	(P-03/2BC750)	5410853045267	2	12	5
HHR-4MVE/4BC	(P-03/4BC750)	5410853045274	4	12	5
	HHR-1SRE/2B <sup>(2)</sup> HHR-2SRE/2B <sup>(2)</sup> HHR-3MVE/2BC HHR-3MVE/4BC HHR-4MVE/2BC	HHR-1SRE/2B <sup>(2)</sup> (P-20/2BC2800) HHR-2SRE/2B <sup>(2)</sup> (P-14/2BC2800) HHR-3MVE/2BC (P-6/2BC1900) HHR-3MVE/4BC (P-6/4BC1900) HHR-4MVE/2BC (P-03/2BC750)	HHR-1SRE/2B <sup>(2)</sup> (P-20/2BC2800) 5410853034520 HHR-2SRE/2B <sup>(2)</sup> (P-14/2BC2800) 5410853034537 HHR-3MVE/2BC (P-6/2BC1900) 5410853045243 HHR-3MVE/4BC (P-6/4BC1900) 5410853045250 HHR-4MVE/2BC (P-03/2BC750) 5410853045267	HHR-1SRE/2B <sup>(2)</sup> (P-20/2BC2800)         5410853034520         2           HHR-2SRE/2B <sup>(2)</sup> (P-14/2BC2800)         5410853034537         2           HHR-3MVE/2BC         (P-6/2BC1900)         5410853045243         2           HHR-3MVE/4BC         (P-6/4BC1900)         5410853045250         4           HHR-4MVE/2BC         (P-03/2BC750)         5410853045267         2	HHR-1SRE/2B <sup>[2]</sup> (P-20/2BC2800)         5410853034520         2         6           HHR-2SRE/2B <sup>[2]</sup> (P-14/2BC2800)         5410853034537         2         12           HHR-3MVE/2BC         (P-6/2BC1900)         5410853045243         2         12           HHR-3MVE/4BC         (P-6/4BC1900)         5410853045250         4         12           HHR-4MVE/2BC         (P-03/2BC750)         5410853045267         2         12





### **PRODUCT BENEFITS**

- Ready to use: you can use them immediately after purchase
- Stay charged: after 1 year still up to 80% of the capacity remains without charging<sup>(2)</sup>
- Combines the convenience of a disposable battery with the performance and cost benefits of a rechargeable battery
- Ideal for the frequent rechargeable battery user



[1] Max. 80% after recharge. Under domestic storage conditions. (2) Under domestic storage conditions. Excluding C/D.

# Ready to Use

min. 1000<sub>mAh</sub> (AA) and telephone batteries





Most suitable for:











### Offers more economies

### Ready to Use 1000

	Min. capacity mAh	Cycle life	Self discharge after 1 year
AA	1,000 mAh	Up to 2,100 times	80%

### **DECT** batteries

	Min. capacity mAh	Cycle life	Self discharge after 1 year
AA	1.000 mAh	Up to 2,100 times	80%
AAA	750 mAh	Up to 1,600 times	80%





## Specifications:

Model N°		CSU EAN	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
HHR-3LVE/2BC	(P-6/2BC1000 DECT)	5410853046011	2	12	5
HHR-3LVE/4BC	(P-6/4BC1000)	5410853045304	4	12	5
HHR-4MVE/2BD	(P-03/2BC750 DECT)	5410853045359	2	12	5
HHR-4MVE/3BD	(P-03/3BC750 DECT)	5410853045366	3	12	5
	HHR-3LVE/2BC HHR-3LVE/4BC HHR-4MVE/2BD	HHR-3LVE/2BC (P-6/2BC1000 DECT) HHR-3LVE/4BC (P-6/4BC1000) HHR-4MVE/2BD (P-03/2BC750 DECT)	HHR-3LVE/2BC (P-6/2BC1000 DECT) 5410853046011  HHR-3LVE/4BC (P-6/4BC1000) 5410853045304  HHR-4MVE/2BD (P-03/2BC750 DECT) 5410853045359	Model N°         CSU EAN         Blister           HHR-3LVE/2BC         (P-6/2BC1000 DECT)         5410853046011         2           HHR-3LVE/4BC         (P-6/4BC1000)         5410853045304         4           HHR-4MVE/2BD         (P-03/2BC750 DECT)         5410853045359         2	Model N°         CSU EAN         Blister         Carton           HHR-3LVE/2BC         (P-6/2BC1000 DECT)         5410853046011         2         12           HHR-3LVE/4BC         (P-6/4BC1000)         5410853045304         4         12           HHR-4MVE/2BD         (P-03/2BC750 DECT)         5410853045359         2         12

### **PRODUCT BENEFITS READY TO USE 1000**

- Ready to use: You can use them immediately after purchase
- Stay charged: after 1 year still up to 80% of the capacity remains without charging<sup>(1)</sup>
- Ideal for the occasional rechargeable battery user
- Long cycle life: up to 2,100 cycles

### **PRODUCT BENEFITS READY TO USE 750**

- Providing an ideal power solution for cordless communication appliances
- Packaging quantities in blister adapted to most frequently used appliances such as DECT phones or walkie talkies

<sup>(1)</sup> Under domestic storage conditions. Excluding C/D.

# High Capacity for High Drain Devices

Avg. Ni-MH 2700 - Ni-MH 1000







HIGH CAPACITY BATTERIES are most suitable for:













### Offers more convenience

	Min. capacity mAh Cycle life	
AA	2,500 mAh	Up to 300 times
AAA	930 mAh	Up to 300 times





## Specifications:

<u>り</u>				Batteries/	Blisters/	Cartons/
<u>у</u> П	Model N°		CSU EAN	Blister	Carton	Bundle
	BK-3HGAE/2BE	AA	5410853052791	2	12	5
DARD	BK-3HGAE/4BE	AA	5410853052807	4	12	5
	BK-4HGAE/2BE	AAA	5410853052821	2	12	5
NAN	BK-4HGAE/4BE	AAA	5410853058687	4	12	5
S)	BK-3HGAE/BF1	AA	5410853052777	1	500	-
	BK-4HGAE/BF1	AAA	5410853052814	1	500	-

### **PRODUCT BENEFITS**

- Due to its high capacity, this is an ideal rechargeable battery for high drain appliances
- Excellent price versus quality ratio







**AAA** 

\*1Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use)

# **CHARGERS**





### Smart & Quick charger - BQ CC55

Rapid charge

**Item** 

- Individual management/ charge control ("Smart Charge")
- Can be used all over the world (100-240 V) Case color: white

Input	AC100-240V 50-60Hz
Input part Structure	Fixed plug
Charging control	Smart Charge $^{1}$ / - $\Delta V$ / Timer
Indicator	LED x 4 Charging: ON, Fully charged: OFF
Charger battery	AA x 1, 2, 3, 4 / AAA x 1, 2, 3, 4 cells
Charging time <sup>2</sup>	AA: Approx 1.5 hours / 3 hours [2,000 mAh] AAA: Approx 1.5 hours / 3 hours [800 mAh]
Charger size (W x H x D)	68 x 121 x 65.5 mm (EU) / 68 x 121 x 62 mm (UK)
Weight	with EU-plug: 124 g - with UK-plug: 132 g

**Specifications** 

<sup>1</sup>This charger has "Smart Charge" function which checks voltage and temperature of battery automatically. Thanks to Smart Charge function, it saves time of charging and loss of energy & money.

## Advanced charger – BQ CC17

- Can charge AA / AAA 4 cells
- Can be used all over the world (100-240 V)
- Individual management/-\Delta V Control
- Case color: white



Panasonic

#### **Item Specifications** AC 100-240 V 50-60 Hz Input Input part Structure Fixed plug Charging control -ΔV /Timer Indicator LED x 4 Charging: ON, Fully charged: OFF Charger battery AA x 1, 2, 3, 4 / AAA x 1, 2, 3, 4 cells AA: Approx 7h [2,000 mAh]; AAA: Approx 6h [800 mAh] Charging time<sup>2</sup> 65 x 105 x 70 mm Charger size (W x H x D) Weight 107,4 g

### Basic charger - BQ CC51

- Can charge AA / AAA 2 or 4 cells
- Can be used all over the world (100-240 V)
- Timer control
- Case color: white

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Item	Specifications Specification Specificat
Input	AC 100-240 V 50-60 Hz
Input part Structure	Fixed plug
Charging control	Timer cut (13 hours)
Indicator	LED x 2 Charging: ON, Fully charged: OFF
Charger battery	AA x 2, 4 / AAA x 2, 4 cells
Charging time <sup>2</sup>	AA: Approx 10 hours; AAA: Approx 10 hours
Charger size (W x H x D)	66 x 108 x 65.5 mm (EU) / 66 x 108 x 62 mm (UK)
Weight	with EU-plug: 100 g - with UK-plug: 108 g

(2) AA/AAA 4 cells.

### **PRODUCT BENEFITS**

- · Improved consumer communication, designed to aid product rotation
- · Clear time indications and features
- · A free 5 year warranty for added reassurance
- · All chargers have lead-free soldering, less harmful for the environment
- · Worldwide compatibility
- · Safety: non rechargeable detection
- · LED Timer ready indication
- For all Ni-MH batteries

### Compact charger - BQ CC50

- Can charge AA / AAA 2 cells
- Can be used all over the world (100-240 V)
- Safety timer: max. 13h
- Case color: white

Item	Specifications Specification Specific
Input	AC 100-240 V 50-60 Hz
Input part Structure	Fixed plug
Charging control	Timer cut (13 hours) Individual
Indicator	LED x 2 Charging: ON, Fully charged: OFF
Charger battery	AA x 1, 2 / AAA x 1, 2 cells
Charging time <sup>3</sup>	AA: Approx 10 hours; AAA: Approx 10 hours
Charger size (W x H x D)	50 x 121 x 66.2 mm (EU) / 50 x 121 x 61.2 mm (UK)
Weight	with EU-plug: 86 g - with UK-plug: 96 g



### Universal charger – BQ CC15

- Can charge AA / AAA / C / D 1-4 cells Can charge 9V 1-2 cells
- Can be used all over the world (100-240 V)
- Automatic switch-off when charged ( $\Delta V$ )
- Case color: white

Specifications
AC 100-240 V 50-60 Hz
AC cable
Timer cut (13 hours) Individual
LED x 2 Charging: ON, Fully charged: OFF
AA x 1-4 / AAA x 1-4 / C x 1-4 / D x 1-4 / 9V x 1-2 cells
AA: Approx 10 hours; AAA: Approx 10 hours
110 x 200 x 55 mm
with EU-plug: 489 g - with UK-plug: 499 g



# Specifications:

Charger	Kit	Batteries included in kit	CSU EAN	Charger size (mm) (W x H x D)	Blister size (mm) (W x H x D)	Blisters/ Carton
BQ-CC55	K-KJ55MGD40E	4x P6 1900	5410853057789	68 x 121 x 65.5	105 x 200 x 72	8
BQ-CC55	K-KJ55MGD40U	4x P6 1900	5410853057802	68 x 121 x 62	105 x 200 x 72	8
BQ-CC17	K-KJ17MGD40E	4x P6 1900	5410853057796	65 x 105 x 70	105 x 200 x 72	8
BQ-CC51	K-KJ51MGD42E	4x P6 1900 / 2x P03 750	5410853056973	66 x 108 x 65.5	105 x 200 x 72	8
BQ-CC51	K-KJ51MGD40U	4x P6 1900	5410853057819	66 x 108 x 62	105 x 200 x 72	8
BQ-CC50	K-KJ50LGA20E	2x P6 1900	5410853056966	50 x 121 x 66.5	105 x 200 x 72	8
BQ-CC15	BQ-CC15E		5025232672141	110 x 200 x 55	167 x 342 x 67	8

(3) AA/AAA 2 cells.



# COIN LITHIUM



#### SPECIAL PANASONIC SEALING TECHNIQUE

is a unique technology to ensure low self discharge rate and high battery performance especially after storage.

### LONG-TERM DISCHARGE

Reaction materials in lithium batteries are more stable than other aqueous batteries. To ensure longer service life, Panasonic evaluates its lithium batteries in all conditions over longer periods.



44

## Specifications:

BLISTER

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Innercarton	Innercartons/ Bundle
CR1025	5410853010227	CR-1025EL/1B	1	12	10
CR1216	5410853010210	CR-1216EL/1B	1	12	10
CR1220	5019068085091	CR-1220EL/1B	1	12	10
CR1616	5019068085107	CR-1616EL/1B	1	12	10
CR1620	5025232068258	CR-1620EL/1B	1	12	10
CR1632	5410853038320	CR-1632EL/1B	1	12	10
CR2012	5410853038450	CR-2012EL/1B	1	12	10
CR2016	5019068085114	CR-2016EL/1B	1	12	10
	5025232060665	CR-2016EL/2B	2	12	10
	5410853059028	CR-2016EL/4B	4	12	10
	5410853043812	CR-2016EL/6BP	6	20	5
CR2025	5019068085121	CR-2025EL/1B	1	12	10
	5025232060672	CR-2025EL/2B	2	12	10
	5410853059035	CR-2025EL/4B	4	12	10
	5410853043829	CR-2025EL/6BP	6	20	5
CR2032	5019068085138	CR-2032EL/1B	1	12	10
	5025232060689	CR-2032EL/2B	2	12	10
	5410853058663	CR-2032EL/4B	4	12	10
	5410853043836	CR-2032EL/6BP	6	20	5
CR2354	5410853038481	CR-2354EL/1B	1	12	10
CR2430	5410853012313	CR-2430EL/1B	1	12	10
CR2450	5410853014355	CR-2450EL/1B	1	12	10









New space saving blister size still with maximum information on it. Individual perforations on the 4BP and 6BP for each of the 4 or 6 batteries.

# COIN LITHIUM is most suitable for:







### **PRODUCT BENEFITS**

- · A long shelf life of up to 10 years
- Reliable even in a wide range of operating temperatures (-30°C to +60°C)
- Extensive cross reference table on the blister
- No mercury added



Panasonic coin lithium batteries have 0% mercury added

# CYLINDRICAL LITHIUM













### **SAFETY GUARANTEE**

Using 4 built-in safety additions, Panasonic ensures an explosion proof structure for its cylindrical lithium batteries, and a power cut off in case of overload.

# EXCELLENT PERFORMANCE IN EXTREME TEMPERATURES

Thanks to the unique composition of lithium and manganese dioxide, this battery is able to function in extreme temperatures (-40°C to +70°C) without hesitance.

## Specifications:

BLISTERS

- p					
Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Innercarton	Innercartons/ Bundle
CR2	5025232016082	CR-2L/1BP	1	10	10
	5410853013464	CR-2L/2BP	2	10	10
CR123	5410853017097	CR-123AL/1BP	1	10	10
	5410853017110	CR-123AL/2BP	2	10	10
2CR5	5410853017158	2CR-5L/1BP	1	10	10
CRP2	5410853017134	CR-P2L/1BP	1	10	10

Panasonic

CR123

POWER YOUR DAY

Panasonic 2CR5

With perforated strip for easy opening.









### **PRODUCT BENEFITS**

- Low internal resistance to provide rapid flash recovery time and quick shooting
- · A long shelf life up to 10 years
- Reliable even in a wide range of operating temperatures (-40°C to +70°C)

# MICRO ALKALINE







LR1130





LR1

LR44



### STABLE DISCHARGE PERFORMANCE

Due to Panasonic's innovative techniques, our Micro Alkaline products are designed to guarantee optimal and stable discharge results, as well as excellent high-drain discharge characteristics.

### **OPTIMAL LEAKAGE RESISTANCE**

As a result of our excellent sealing technique Panasonic Micro Alkaline batteries have an optimal leakage resistance.

### Specifications:

	Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Innercarton	Innercartons/ Bundle
J T	LR44	5019068083035	LR-44EL/1B	1	12	10
		5410853018469	LR-44EL/2B	2	12	10
		5410853049135	LR-44L/6BP	6	20	-
	LR1130	5019068083011	LR-1130EL/1B	1	12	10
	LRV08	5410853057345	LRV08L/1BE	1	10	10
		5410853057376	LRV08L/2BE	2	10	10
	LR1	5019068592551	LR1L/1BE	1	10	10





# MICRO ALKALINE is most suitable for:







### **PRODUCT BENEFITS**

- · Excellent price versus quality ratio
- Extensive cross reference table on the blister
- · No mercury added



Panasonic micro alkaline batteries have 0% mercury added

# SILVER OXIDE











SR616









SR626





SR721



SR927





SR936











SR44

4SR44

50



### **HIGH ENERGY DENSITY**

Panasonic's know-how in materials, such as antioxidant and high performance separators, results in a high energy density and improved storage characteristics.

### **CONSTANT VOLTAGE OUTPUT**

A stable discharge performance can be guaranteed using silver as one of the active components within the button cell.

### Specifications:

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Innercarton	Innercartons/ Bundle
SR521	5410853035466	SR-521EL/1B	1	12	10
SR616	5410853035473	SR-616EL/1B	1	12	10
SR621	5410853035480	SR-621EL/1B	1	12	10
SR626	5410853035497	SR-626EL/1B	1	12	10
SR721	5410853035503	SR-721EL/1B	1	12	10
SR920	5410853035527	SR-920EL/1B	1	12	10
SR927	5410853035534	SR-927EL/1B	1	12	10
SR936	5410853035541	SR-936EL/1B	1	12	10
SR1130	5410853035428	SR-1130EL/1B	1	12	10
SR41	5410853035435	SR-41EL/1B	1	12	10
SR44	5410853013976	SR-44EL/1B	1	12	10
4SR44	5410853013990	4SR44L/1BP	1	10	10





New space saving blister size, still with maximum information on it.

# SILVER OXIDE is most suitable for:







### **PRODUCT BENEFITS**

- High performance batteries for various types of watches and other small electronics
- · Extensive cross reference table on the blister
- No mercury added



Panasonic silver oxide batteries have 0% mercury added

# **ZINC AIR**









PR13



PR312



PR675



### **UNIQUE COMPOSITION**

Zinc air batteries are unique within the Panasonic range, as only one of the active materials is inside the battery. When tearing off the tab, oxygen enters and activates the battery.

#### **HIGHEST ENERGY DENSITY**

With the highest energy density of all electrochemical systems and due to their small size, these batteries are excellent to power small energy-hungry devices in need of continuous discharge.

## Specifications:

Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Innercarton	Innercartons/ Bundle
PR10 (PR230/PR536)	5410853057024	PR-10L/6LB	6	10	5
PR13 (PR48)	5410853057017	PR-13/6LB	6	10	5
PR312 (PR41)	5410853057031	PR-312/6LB	6	10	5
PR675 (PR44)	5410853057048	PR-675/6LB	6	10	5

Compact sized blisters. Easy to stow away; fits in purse or wallet.







# ZINC AIR is suitable for:



### **PRODUCT BENEFITS**

- · Ideal for new generation digital hearing aids
- Comfortable, light and providing a steady level of power for hearing enhancement equipment
- Reliable power in various temperature conditions
- · No mercury added

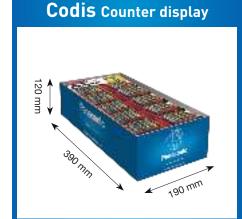


Panasonic zinc air batteries have 0% mercury added

# **DISPLAYS**

Appearance in a retail shop is very important. It is not sufficient that the product is good and qualitative, it must also be appealing to the eye. That's where displays come in. Attractive displays help sell the products and so they are definitely worth the investment. Panasonic has a wide range of carton & permanent displays with focus on benefits for both consumers and trade.

# **CARTON PROMOTIONAL COUNTER DISPLAYS**



### PRODUCT BENEFITS & CHARACTERISTICS

Basic counter display Pre-filled

Suitable for different types of packaging

TECH	MICA	I CDE	CIEI	CATI	INNE
LEUR	INIUA	LOFE	UIFI	CAL	UNB

Height	120 mm
Width	190 mm
Depth	390 mm
Topcard dimensions	H 150 x W 170 mm
Net weight <sup>1</sup>	0.139 kg
# product facings	N.A.
Max. # AA/8BW	30

### Codis F2 Counter display



### **PRODUCT BENEFITS & CHARACTERISTICS**

Very compact counter display
Pre-filled
Stackable
Tear off lid

### TECHNICAL SPECIFICATIONS

Height incl. topcard	260 mm
Width	180 mm
Depth	185 mm
Topcard dimensions	H 140 x W 180 mm
Net weight <sup>1</sup>	0.103 kg
# product facings	1 (2 if 4BP)
Max. # AA/8BW	12

### Codis F4 Counter display



### **PRODUCT BENEFITS & CHARACTERISTICS**

Qualitative counter display

Flip up topcard

Pre-filled

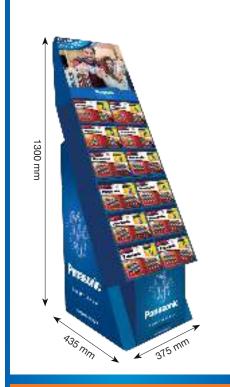
Excellent product visibility & accessibility

### TECHNICAL SPECIFICATIONS

Height incl. topcard	265 mm
Width	375 mm
Depth	190 mm
Topcard dimensions	H 141 x W 375 mm
Net weight <sup>1</sup>	0.175 kg
# product facings	2
Max. # AA/8BW	24

# **CARTON PROMOTIONAL FLOOR DISPLAYS**

### 12W Pop up Floor display



### **PRODUCT BENEFITS & CHARACTERISTICS**

Compact, modern display

Pop up foot & flip up topcard

Dro-fillor

Easy to mount / fast setup

Excellent product visibility & accessibility

Less waste (only carton materials)

PALLET WITH DISPLAYS FITS IN A CAR

### **TECHNICAL SPECIFICATIONS**

Height incl. topcard	1300 mm
Width	375 mm
Depth	435 mm
Topcard dimensions	H 340 x W 375 mm
Net weight <sup>1</sup>	3.25 kg
# product facings	12
# trays	2
Max. # AA/8BW	108
# displays / pallet	12

### 15W Floor display



### **PRODUCT BENEFITS & CHARACTERISTICS**

Qualitative display

Flip up topcard

Pre-filled and mounted

Less handling

Excellent product visibility & accessibility

Less waste (only carton materials)

100% READY TO SELL

### **TECHNICAL SPECIFICATIONS**

Height incl. topcard	1626 mm
Width	600 mm
Depth	400 mm
Topcard dimensions	H 320 x W 585 mm
Net weight <sup>1</sup>	4.6 kg
# product facings	15
# trays	N.A.
Max. # AA/8BW	216
# displays / pallet	4

### **CFD** Floor display



### **PRODUCT BENEFITS & CHARACTERISTICS**

Compact high volume display

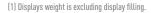
Pre-filled and mounted

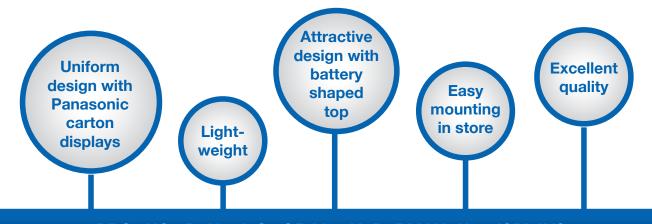
Suitable for different types of packaging

Less waste (only carton materials)

### TECHNICAL SPECIFICATIONS

Height incl. topcard	1550 mm
Width	400 mm
Depth	600 mm
Topcard dimensions	H 400 x W 395 mm
Net weight <sup>1</sup>	2.7 kg
# product facings	N.A.
# trays	4 or 6
Max. # AA/8BW	from 196 to 294
# displays / pallet	4





# PRODUCT BENEFITS FOR METAL PERMANENT DISPLAYS

# **METAL COUNTER DISPLAYS**



TECHNICAL SPECIFICATIONS					
Height	664 mm				
Width	217 mm				
Depth	196 mm				
Net weight <sup>1</sup>	3.2 kg				
N° of hooks	6 fixed				
Hook length	18 cm				
Max # AA/4BP per hook	12				
Max # AAA/4BP per hook	16				
Max # C/2BP per hook	6				
Max # D/2BP per hook	5				
Max # 9V/1BP per hook	10				
For single blisters & wideblisters					



TECHNICAL SPECIFICATIONS						
Height	664 mm					
Width	314 mm					
Depth	196 mm					
Net weight 1	3.7 kg					
N° of hooks	9 fixed					
Hook length	18 cm					
Max # AA/4BP per hook	12					
Max # AAA/4BP per hook	16					
Max # C/2BP per hook	6					
Max # D/2BP per hook	5					
Max # 9V/1BP per hook	10					
For single blisters & wideblisters						



TECHNICAL SPECIFICATIONS					
Height	820 mm				
Width	342 mm				
Depth	150 mm				
Net weight <sup>1</sup>	4.2 kg				
N° of hooks	12 fixed				
Hook length	18 cm				
Max # AA/4BP per hook	12				
Max # AAA/4BP per hook	16				
Max # C/2BP per hook	6				
Max # D/2BP per hook	5				
Max # 9V/1BP per hook	10				
For single blisters & wideblisters					

# **HANG DISPLAY**

# **METAL FLOOR DISPLAYS**

# 5H strip



TECHNICAL SPECIFICATIONS					
Height	800 mm				
Width	150 mm				
Depth	120 mm				
Net weight <sup>1</sup>	1.7 kg				
N° of hooks	5 fixed				
Hook length	12 cm				
Max # AA/4BP per hook	6				
Max # AAA/4BP per hook	10				
Max # C/2BP per hook	3				
Max # D/2BP per hook	2				
Max # 9V/1BP per hook	6				
For single blisters only					

# 8H Magn. sidehanger



TECHNICAL SPECIFICATIONS					
Height	620 mm				
Width	183 mm				
Depth	215 mm				
Net weight <sup>1</sup>	3.5 kg				
N° of hooks	8 fixed				
Hook length	20 cm				
Max # AA/4BP per hook	13				
Max # AAA/4BP per hook	18				
Max # C/2BP per hook	7				
Max # D/2BP per hook	5				
Max # 9V/1BP per hook	11				
For single blisters & wide	blisters				

## 28H Floor display



Height	2030 mm				
Width	502 mm				
Depth	320 mm				
Net weight 1	25.5 kg				
N° of hooks	28 fixed				
Hook length	30 cm				
Max # AA/4BP per hook	20				
Max # AAA/4BP per hook	26				
Max # C/2BP per hook	10				
Max # D/2BP per hook	8				
Max # 9V/1BP per hook 17					
For single blisters & wideblisters					

TECHNICAL SPECIFICATIONS

# 40H Floor display



TECHNICAL SPECIFICATIONS						
Height	2030 mm					
Width	600 mm					
Depth	355 mm					
Net weight <sup>1</sup>	31 kg					
N° of hooks	40 fixed					
Hook length	30 cm					
Max # AA/4BP per hook	20					
Max # AAA/4BP per hook	26					
Max # C/2BP per hook	10					
Max # D/2BP per hook	8					
Max # 9V/1BP per hook	17					
For single blisters & wid	leblisters					

## Alkaline

PANASONIC	DURACELL	ENERGIZER	VARTA	KODAK	RAYOVAC	SONY	GP	OTHERS
LR03	MN/MX2400	E92	4X03	K3A	824	AM4	24A(UP)	AAA
LR6	MN/MX1500	E91	4X06	KAA	815	AM3	15A(UP)	AA
LR14	MN/MX1400	E93	4X14	KC	814	AM2	14A(UP)	C
LR20	MN/MX1300	E95	4X20	KD	813	AM1	13A(UP)	D
6LR61	MN/MX1604	522	4X22	K9V	A1604	AM6	1604A(UP)	9V
3LR12	MN/MX1203	3LR12PL	4X12	-	-	-	-	4,5V

## Zinc Carbon

PANASONIC	ENERGIZER	VARTA	KODAK	GP	MAXELL	RAYOVAC	OTHERS
R03	A91/R03	R03/2003	K3A HZ/ZM	24PL/G	RO3P(AB)	3AAA	AAA
R6	A92/R6	R6/2006	KAA HZ/ZM	15PL/G	R6P	5Aw	AA
R14	A93/R14	R14/2014	KC HZ/ZM	14S/G	R14P	4C	С
R20	A95/R20	R20/2020	KD HZ/ZM	13S/G	R20P	6D	D
6F22	A522/6F22	6F22/2022	K9V VZM	1604 S/G	-	D1604	9V

# Rechargeable

0							
PANASONIC	DURACELL	ENERGIZER	VARTA	PHILIPS	MEMOREX	GP	OTHERS
HHR4 (P03)	HR03	HR03	5XXX3	NCR03P	HR03	AAAHC(B)	AAA
HHR3 (P6)	HR6	HR6	5XXX6	NCR6P	HR6	AAHC(B)	AA
HHR2 (P14)	HR14	HR14	56714	NCR14P	HR14	CHC(B)	С
HHR1 (P20)	HR20	HR20	23720	NCR20P	HR20	DHC(B)	D
HHR9 (P22)	HR9V	HR22	56722	6NCR22P	9V	17R8H(B)	9V

### Coin Lithium

PANASONIC	DURACELL	ENERGIZER	VARTA	KODAK	OTHERS
CR1025	1025	CR1025	-	-	-
CR1216	1216	CR1216	CR1216	=	-
CR1220	1220	CR1220	CR1220	-	-
CR1616	1616	CR1616	CR1616	-	-
CR1620	1620	CR1620	CR1620	-	-
CR1632	1632	CR1632	CR1632	-	-
CR2012	-	CR2012	-	KCR2012	-
CR2016	2016	CR2016	CR2016	KCR2016	LM2016
CR2025	2025	CR2025	CR2025	KCR2025	LM2025
CR2032	2032	CR2032	CR2032	KCR2032	LM2032
CR2354	-	-	-	KCR2354	-
CR2430	2430	CR2430	CR2430	KCR2430	LM2430
CR2450	2450	CR2450	CR2450	KCR2450	-

## Cylindrical Lithium

. ,						
PANASONIC	DURACELL	ENERGIZER	VARTA	KODAK	RAYOVAC	IEC
CR2	CR2	CR2	CR2	KCR1	CR2	CR17355
CR123	123	E123A	CR123	K123L	123A	CR17345
2CR5	245	2CR5	2CR5	KL2CR5	2CR5	2CR5
CRP2	223	223	CRP2	KCRP2A	223A	CRP2

### Micro Alkaline

PANASONIC	DURACELL	ENERGIZER	VARTA	PHILIPS	KODAK	RAYOVAC	MAXELL	SONY	IEC
LR44	LR44	A76	V13GA	A76	KA76	A76	LR44	-	LR44
LR1130	LR54	189	V10GA	-	KA54	-	-	-	-
LRV08	MN21	A23	V23GA	8LR932	K23A	KE23A	-	-	8LR932
LR1	MN9100/N	E90	4001	LR1	KN	KE810/N	LR1	AM5	LR1

### Silver Oxide

PANASONIC	DURACELL	ENERGIZER	VARTA	KODAK	MAXELL	RAYOVAC	RENATA	PHILIPS	IEC
SR516	317	317	V317	-	SR516SW	317	317	317	-
SR521	379	379	V379	-	SR521SW	379	379	379	SR63
SR616	321	321	V321	-	SR616SW	321	321	321	SR65
SR621	364	364/363	V364	-	SR621SW	364	364	364	SR60
SR626	377	377	V377	-	SR626SW	377	377	377	SR66
	376	376	-	-	SR626W	376	376	376	-
SR721	362	362	V362	-	SR721SW	362	362	362	SR58
	361	361	V361	-	SR721W	361	361	361	-
SR726	397/396	397/396	V397	-	SR726SW	397	397	397	SR59
SR920	371	371	V371	-	SR920SW	371	371	371	SR69
	370	370	V370	-	SR920W	370	370	370	-
SR927	395	395	V395	-	SR927SW	395	395	395	SR57
	399	399	V399	-	SR927W	399	399	399	-
SR936	394	394/380	V394	-	SR936SW	394	394	394	SR45
SR1120	391	391	V391	-	SR1120SW	391	391	391	SR55
	381	381	V381	-	SR1120W	381	381	381	-
SR1130	390	390	V390	-	SR1130SW	390	390	390	SR54
	389	389	V389	-	SR1130W	389	389	389	-
SR41	384	384	V384	-	SR41SW	384	384	384	SR41
	392	392	V392	-	SR41W	392	392	392	-
SR44	357/303	EPX76	V76PX/357/303	KS76	SR44	357	357	357	SR44
4SR44	PX28	544	V28PX	KS28	-	RPX28	RPX28	RPX28	4SR44

### Zinc Air

PANASONIC	DURACELL	ENERGIZER	VARTA	MAXELL	RAYOVAC
PR10(230)	10	10	10	-	10
PR13	13	13	13	EP13E	13
PR312	312	312	312	EP312E	312
PR675	675	675	675	EP675E	675
PR675	-	EP675E	-	675AP	-

## **EVOLTA**

Model N°	S	iize	Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LR03EGE	S	AAA	Alkaline	1.5	44.5	10.5	11.4	10
LR6EGE	М	AA	Alkaline	1.5	50.5	14.5	23.1	10
LR14EGE	L	С	Alkaline	1.5	50	25.7	68.7	10
LR20EGE	XL	D	Alkaline	1.5	61.5	33.6	140.9	10
6LR61EGE	9V	9V	Alkaline	9	47.5	25.25 x 16.3	43.3	5

## **Pro Power**

Model N°	(	Size	Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LR03PPG	S	AAA	Alkaline	1.5	44.5	10.5	11.4	10
LR6PPG	М	AA	Alkaline	1.5	50.5	14.5	23.1	10
LR14PPG	L	С	Alkaline	1.5	50	25.7	68.7	10
LR20PPG	XL	D	Alkaline	1.5	61.5	33.6	140.9	10
6LR61PPG	9V	9V	Alkaline	9	47.5	25.25 x 16.3	43.3	5
3LR12PPG	-	-	Alkaline	4.5	67	62 x 22	163	5

**Everyday Power** 

Model N°	S	ize	Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LR03EPS	S	AAA	Alkaline	1.5	44.5	10.5	10.8	10
LR6EPS	М	AA	Alkaline	1.5	50.5	14.5	23.1	10
LR14EPS	L	С	Alkaline	1.5	50	25.7	66.6	10
LR20EPS	XL	D	Alkaline	1.5	61.5	33.6	136.5	10
6LR61EPS	9V	9V	Alkaline	9	47.5	25.25 x 16.3	42.9	5

## **Alkaline Power**

Model N°	Size		Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LR03APB	c	AAA	Alkaline	1.5	44.5	10.5	10.8	5
LR6APB	M	AAA	Alkaline	1.5	50.5	14.5	22.8	ე წ
LR14APB	L	C	Alkaline	1.5	50.5	25.7	66.6	5
LR20APB	XL	D	Alkaline	1.5	61.5	33.6	136.5	5
6LR61APB	9V	9V	Alkaline	9	47.5	25.25 x 16.3	42.9	5

# **Red Zinc**

Model N°	Size		Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
R03RZ	S	AAA	Zinc carbon	1.5	44	10.2	8.85	3
R6RZ	М	AA	Zinc carbon	1.5	50.25	13.9	17.5	3
R14RZ	L	C	Zinc carbon	1.5	49.4	25.4	47.7	3
R20RZ	XL	D	Zinc carbon	1.5	60.7	32.9	98.5	3
6F22RZ	9V	9V	Zinc carbon	9	48.5	17.5 x 26.5	37.9	2.5
3R12RZ	-	-	Zinc carbon	4.5	67	62 x 22	110	2.5
PP9RZ	-	-	Zinc carbon	9	78	65 x 50	368.76	2

# Rechargeable Ready to Use 2450 - 900 mAh

Model N°	Size		Technology	Voltage (V)	Capacity (mAh) [1]	Height (mm)	Diameter (mm)	Weight (g)
HHR-4XXE	AAA	S	Ni-MH	1.2	900	43.9	10.2	12.6
HHR-3XXE	AA	М	Ni-MH	1.2	2450	50.35	14.2	29.2

Rechargeable Ready to Use 1900 - 750 mAh

Model N°	Siz	e	Technology	Voltage (V)	Capacity (mAh) (1)	Height (mm)	Diameter (mm)	Weight (g)
HHR-4MVE	AAA	S	Ni-MH	1.2	750	44.5	10.5	13
HHR-3MVE	AA	М	Ni-MH	1.2	1900	50.5	14.5	29
HHR-2SRE	С	L	Ni-MH	1.2	2800	49.8	25.6	69.4
HHR-1SRE	D	XL	Ni-MH	1.2	2800	61.6	32.9	81.1

Rechargeable Ready to Use 1000 mAh & telephone

Model N°	Size		Technology	Voltage (V)	Capacity (mAh) (1)	Height (mm)	Diameter (mm)	Weight (g)
HHR-3LVE	AA	М	Ni-MH	1.2	1000	50.5	14.5	20.35

### Coin Lithium

II LIGHTUIN							
Model N°	Technology	Voltage (V)	Capacity (mAh)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
CR1025	Lithium	3	30	2.50	10.00	0.7	10
CR1216	Lithium	3	25	1.60	12.50	0.7	10
CR1220	Lithium	3	35	2.00	12.50	0.9	10
CR1616	Lithium	3	55	1.60	16.00	1.2	10
CR1620	Lithium	3	75	2.00	16.00	1.3	10
CR1632	Lithium	3	140	3.2	16.00	1.8	10
CR2012	Lithium	3	55	1.2	20.00	1.4	10
CR2016	Lithium	3	90	1.60	20.00	1.7	10
CR2025	Lithium	3	165	2.50	20.00	2.6	10
CR2032	Lithium	3	220	3.20	20.00	3.1	10
CR2354	Lithium	3	565	5.4	23.00	5.8	10
CR2430	Lithium	3	285	3.00	24.50	3.9	10
CR2450	Lithium	3	620	5.00	24.50	6.3	10

**Cylindrical Lithium** 

Model N°	Technology	Voltage (V)	Capacity (mAh)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
CR2	Photo lithium	3	850	27	15.6	11.08	10
CR123	Photo lithium	3	1400	34.5	17.1	17	10
2CR5	Photo lithium	6	1400	45	17 x 34	38	10
CRP2	Photo lithium	6	1400	36	19.5 x 34	37	10

(1) Minimum capacity.



### Micro Alkaline coin

Model N°	Technology	Voltage (V)	Capacity (mAh)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LR44	Alkaline	1.5	120	5.10	11.50	1.95	3
LR1130	Alkaline	1.5	65	3.00	11.60	1.27	3
LRV08	Alkaline	12	52	28.50	10.30	7.92	3
LR1	Alkaline	1.5	900	30.20	12.00	9.20	5

### Silver Oxide

Model N°	Technology	Voltage (V)	Capacity (mAh)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
SR521	Silver Oxide	1.55	17	2.15	5.80	0.24	3
SR616	Silver Oxide	1.55	16	1.65	6.80	0.25	3
SR621	Silver Oxide	1.55	23	2.15	6.80	0.31	3
SR626	Silver Oxide	1.55	28	2.60	6.80	0.39	3
SR721	Silver Oxide	1.55	25	2.10	7.90	0.41	3
SR920	Silver Oxide	1.55	45	2.05	9.50	0.60	3
SR927	Silver Oxide	1.55	55	2.70	9.50	0.80	3
SR936	Silver Oxide	1.55	70	3.60	9.50	1.07	3
SR1130	Silver Oxide	1.55	82	3.10	11.60	1.50	3
SR41	Silver Oxide	1.55	45	3.60	7.90	0.70	3
SR44	Silver Oxide	1.55	180	5.40	11.60	2.40	3
4SR44	Silver Oxide	6.20	160	25.10	13.00	11.00	3

### Zinc Air

Model N°	Technology	Voltage (V)	Capacity (mAh)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
PR10 (PR230/PR536)	Zinc air	1.4	100	3.6	5.8	0.30	3
PR13 (PR48)	Zinc air	1.4	300	5.4	7.9	0.83	3
PR312 (PR41)	Zinc air	1.4	170	3.6	7.9	0.58	3
PR675 (PR44)	Zinc air	1.4	650	5.4	11.6	1.85	3

# Online communication



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### For all batteries

### Use the Same Battery Type

When it's time to exchange batteries, be sure to replace all of them at the same time using the same battery type. Using different types (such as a mix of alkaline and manganese batteries, mix of different companies' batteries, or a mix of new and old batteries) may not only shorten service life, but could also result in battery leakage and explosion.



### **Don't Short-Circuit Your Batteries**

If batteries are accidentally shortcircuited, excessive current is generated instantaneously resulting in overheating and possible rupture. Avoid letting your batteries come into contact with metal objects such as necklaces, car keys, or paperclips.



### **Avoid Rough Treatment**

Try to handle your batteries with care. Avoid damaging the label, and don't expose them to excessive heat. Do not disassemble, modify, or solder the battery, and don't immerse the battery in liquid. Doing so may result in short-circuit, battery rupture, leakage, and possible injury.



# Avoid Installing Batteries in the Wrong Direction

If batteries are installed improperly, they can become charged. This causes gas to build up, raising the internal pressure. This could lead to potentially dangerous overheating, leakage, rupture, and possibly result in personal injury.



### What to Do in Case of Leakage

If a battery leaks due to accidental misuse, and electrolyte (battery fluid) comes into contact with your eyes, rinse them well with water and seek medical treatment immediately. If the electrolyte comes in contact with skin or clothing, rinse the exposed area thoroughly with water.



### For Ni-MH batteries

### **Never Charge Primary Batteries**

Charging primary batteries is highly dangerous and may result in injury. Recharge only Ni-MH batteries in an approved charging device. If Ni-MH batteries are charged with a device not specifically designed for that product, the battery may overheat, rupture, and leak.



# Recharge Ni-MH Batteries When Fully Depleted

It is best to recharge your Ni-MH batteries after they have been fully discharged. Doing so may provide longer usage and prolong the life of the product. When recharging is complete, it's also a good idea to remove the batteries from the charger as soon as possible. Remove the charger from the electrical outlet when batteries are replenished.



# Replace all Batteries at the Same Time

Mixing batteries at different states of depletion in your device can result in battery-fluid leakage and potential injury. When using rechargeable batteries, we recommend installing cells that were recharged at the same time.



## Ideas for Enjoying Better Performance

Switch Off Your Device After Use



Remove Batteries from Devices Not in Use for Long Periods



Carry a Spare Set of Batteries



Tips for Safe Storage 10 °C to 25 °C (50 °F to 77 °F)



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### Panasonic Energy Europe N.V. - Benelux department

Brusselsesteenweg 502, 1731 Zellik

BELGIUM

Tel: +32 2 481 11 76 - Fax: +32 2 463 04 26

### Panasonic Marketing Europe GmbH

organizační složka Česká republika

Corso II.a, Křižíkova 148/34, 186 00 Praha 8 CZECH REPUBLIC

Tel: +420 236 032 511

### Panasonic Denmark - Branch Office of PME - Battery Dept.

Naverland 2, 9 sal

DK - 2600 Glostrup, DENMARK

Tel: +46 8 680 26 96 - Fax: +46 8 680 27 55

e-mail: denmark-offices.batteries@eu.panasonic.com

### Panasonic France - Branch Office of PME - Battery Dept.

1 à 7 rue du 19 mars 1962, 92238 Gennevilliers cedex

Tel: +33 1 47 91 64 00 - Fax: +33 1 47 91 63 80

#### Panasonic Industry Europe GmbH

Handelsbatterien D-A-CH

Winsbergring 15, 22525 Hamburg **GERMANY** 

Tel: +49 40 85 49 6422 - Fax: +49 40 85 49 6177

e-mail: Verkaufsservice.Handelsbatterien@eu.panasonic.com

### Panasonic Italy - Branch Office of PME - Battery Dept.

Via dell'Innovazione 3, 20126 Milano

Tel: +39 02 6788 1 - Fax: +39 02 6788 397

### Panasonic Marketing Europe GmbH (Poland)

Wołoska 9a, 02-583 Warszawa

**POLAND** 

Tel: +4822 338 11 44 - Fax: +4822 338 11 22

### Panasonic Sweden - Branch Office of PME - Battery Dept.

Telefonvägen 26, 126 26 Hägersten **SWEDEN** 

Tel: +46 8 680 26 96 - Fax: +46 8 680 27 55

e-mail: sweden-offices.batteries@eu.panasonic.com

### 🟶 Panasonic Industry Europe GmbH

Consumer Batteries

Willoughby Road Bracknell

RG12 8FP UNITED KINGDOM

Tel: +44 1344 853795 - Fax: +44 1344 853 724

### **Proton Ltd**

Rr."Luigj Gurakuqi", Pallati 89 Sh.A, Kati 10 Tirana, ALBANIA

Tel: +355 422 275 655 - Fax: +355 422 275 605

Mobile: +355 69 600 6500

e-mail: endri.ndoni@proton-grp.com

### Teloptic / Avaks

Mostarko Raskrsce b.b. 71000 Sarajevo, BOSNIA

Tel: +387 33 638870 890 - Fax: +387 33 63 88 90

e-mail: info@teloptic.ba

#### Amperel

126 Tsar Boris III Bvd. Floor 7 1612 Sofia, BULGARIA

Tel: +359 2 8182620 - Fax: + 359 2 9559263 e-mail: sofia@amperel.net

### **Nordic Digital AS**

Tööstuse tee 6, Tõrvandi 61715

Ülenurme vald, Tartumaa, ESTONIA Tel: +372 733 7700

e-mail: info@nordic-digital.ee

### Intertech Sa

Afroditis Street 24 16777 Helliniko, GREECE Tel: +30 210 9692 300 e-mail: info@intertech.gr

#### H&A Kft.

2146. Mogyoród, Gödöllői út 29/a. 2146, Mogyoród, Pf.: 56, HUNGARY Tel: +36 20 934 13 59

e-mail: info@hakft.hu

### Kapacitas Kft.

Szentpetery u.24 1115 Budapest, HUNGARY

Tel: +36 1 4630 888 - Fax: +36 1 4630 899 e-mail: info@kapacitas.hu

Web: www.kapacitas.hu

#### Vendek Ltd

Unit C5 South City Business Park Whitestown, Tallaght, Co Dublin

Tel: +353 1 452 41 41 - Fax: +353 1 452 41 19

e-mail: info@vendek.ie

#### M SAN Grupa

Buzinski prilaz 10 10010 Buzin, Zagreb, KROATIA Tel: +385 1 6690 760 - Fax: +385 1 36 54 929

e-mail: info cea@msan.hr

### Sancta Domenica

Dr. Franje Tudmana 69 10431 Sveta Nedelja, KROATIA Tel: +385 1 3369 562 - Fax: +385 1 3369 556 e-mail: info@sancta-domenica.hr

**Evro Stil** 

Bul. Vojvodina br. 4 (Slavija)

1000 Skopje, MACEDONIA Tel: +47 95 98 55 00 - Fax: +47 23 17 89 59

e-mail: evrostil\_cosmetic@hotmail.com

#### Naba Bjelland AS

Biørnerudveien 12 A 1266 Oslo, NORWAY Tel: +47 95 98 55 00 - Fax: +47 23 17 89 59

e-mail: post@naba.no www.nababjelland.no

Tempel Group Portugal

Cacém Park - Armazém 29 Estrada de Paco d'Arcos 88-88 A 2735-307 Cacém, PORTUGAL Tel: +351 214220540 - Fax: +351 214220549 e-mail: marketing.pt@tempelgroup.com

#### Flasher Business Group SRL

Tudor Vladimirescu Street, 075100 Otopeni, Ilfov District, ROMANIA Tel: +4031 4327786 - Fax: +4031 4327787 e-mail: office@flasher.ro

### Glob Star Trade SRL

Aleea Mizil 47-49 032346 București, ROMANIA Tel: +40 21 320 2160 www.globstar.ro

#### Contrel

Ul.Rableova 24 11060 Beograd, SERBIA

Tel: +381 21 6397 009 - Fax: +381 21 6397 009

e-mail: office@contrel.co.rs

#### MIM TEC

Viline vode bb, Slobodna zona Beograd L12/3 11000 Beograd, SERBIA

Tel: +381 11 20 70 645 - Mob: +381 64 806 6032

Fax:+381 11 33 13 596

e-mail: anita.vuckovic@kimtec.rs

#### Eurofoto D.O.O.

Poslovna cona A 20 4208 Sencur, SLOVENIA Tel: +386 4 6 000 200 - Fax: +386 4 6000 201

e-mail: info@eurofoto.si

### RT-TRI D.O.O.

Borovec 31, SI-1236 Trzin, SLOVENIA Tel: +386 (0)1 53 04 000 - Fax: +386 (0)1 53 04 010 www.rt-tri.si

### Elica

Juan Ravina Méndez, 5 A - Poligono Ind. Costa Sur 38009 Santa Cruz de Tenerife, SPAIN Tel: +34 922 20 25 27 - Fax: +34 922 20 44 35 e-mail: jsosa@elicacanarias.com

### **Tempel Group**

Cobalto 4 08907 L'Hospitalet de Llobregat Barcelona, SPAIN Tel: +34 936003610 - Fax: +34 933373910 e-mail: marketing@tempelgroup.com

### Burla

Bankalar Cad. No 23 34420 Karaköy, Istanbul, TURKEY Tel: +90 2122564950 e-mail: pil@burla.com

