BATTERY CATALOGUE 2019 - 2020



Panasonic

POWER YOUR DAY



www.panasonic-batteries.com

PANASONIC BATTERIES **YOUR POWER PARTNER**

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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

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27
58

Panasonic - A powerful Global Brand

Best Regarded Company of the 2018 Forbes



Worldwide leading corporation

- Panasonic Corporation is one of the largest electronic
- 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.

Panasonic Corporation Osaka – Japan Kazuhiro Tsuga March, 1918 (incorporated in December, 1935) 3,002.7 billion yen 271,869 582 (including parent company)



(2) Source: www.forbes.com/top-regarded-companies/list

(3) Source- www interbrand cor



Creating New Life with Energy

Leading Energy Solutions for the Future

Panasonic's vision for the future centres 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 lithium-ion batteries for Tesla motors' electric vehicles, the development of industrial solutions & connected solutions such as in flight entertainment systems and also life solutions & appliances to support a better life, a better world.

- Idaine







APPLIANCES

Air-conditioning
Small & Built-in Appliances
Major Appliances
TV, Imaging Network and Home Entertainment
Smart Energy Systems

LIFE SOLUTIONS

- Lighting
 Panasonic Ecology
 Systems
- Energy Systems
- Housing Systems
 Panasonic Homes
- Panasonic nomes

CONNECTED SOLUTIONS

Avionics
Process Automation
Media Entertainment

Mobile Solutions
Social Services, Logistics and Distribution

INDUSTRIAL SOLUTIONS

Industrial SystemsConsumer batteries

AUTOMOTIVE • Automotive Solutions • Energy Devices

A Change for the Better

Panasonic supports the technological leaders of today as a key partner in Electric Vehicle development and the sponsoring of events and teams in solar events around the world.



Electric Vehicle Race Partner

Panasonic supports the Ene-1 GP SUZUKA event by supplying 40 AA-size eneloop cells that power each student-designed vehicle.



Manned Flight Challenge

Tokai University aimed for a world record by flying about 3.6 km in an aircraft powered by 640 EVOLTA cells.

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Panasonic

Historical highlights

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

Matsushita Electric incorporated and

a sister company, Matsushita Dry Cell

1954

dry battery

Released National

Hyper, Japan's first

fully metal-jacketed

National Hyper dry cell debuts

tie-ins with overseas manufacturers, a

using home-grown technology was

National Hyper was born

policy of developing world-class products

maintained, with materials and parts made

in-house to ensure consistent quality. By

unifying effort in product development, the

While other brands entered into technical 1964

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



Introduced the battery brand National for the square lamp.

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.

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 to the next 100 years with optimism, Panasonic affirms our commitment to innovation.

With a range of solutions to meet customers' needs in demanding applications and in any conditions, we continue to create new life with energy.

#100

Developed lithium

primary batteries

(graphite fluoride

1970

Ni-Cd batteries

3 31

Alkaline batteries released, developed

compact sealed lead-acid batteries

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.

BR line)

1971

1969

National NEC

manganese dry

batteries debuts

Research into a battery with capacity three

times that of Hyper and 1.5 times that of

the world's longest battery life.

Hi-Top began immediately. After five years of

intensive work, the NEO Hi-Top was released.

With 918 patents and utility models, it boasted

Hi-Top

Commenced

production

of Cadnica

0

1963

Ni-Cd batteries

1979

Matsushita Battery Industrial Co., Ltd. established

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.'









mass production of cylindrical lithium atteries for cameras

1991 Mercury-free manganese batteries released

With growing awareness about the

need for corporations to unite in

an effort to reduce environmental

partnerships with the US and

leading the way with safe and

eco-friendly mercury-free

manganese batteries.

Released Ultra Alkaline

and Panasonic Alkaline

batteries

1987

ecologically responsible products.

High-current

Panasonic

Alkaline

batteries

1995

1997

Europe towards developing

impact. Panasonic forged



1989

000 0000

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

1992

Released

alkaline

batteries

mercury-free



Development rechargeable lithium coin battery for AV devices and backup



1918



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



2017 Released EVOLTA NEO batteries

Panasonic



100th Anniversary

Expanding our expertise for the next 100 years ...

2018

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.



440 million More than 440 million eneloop

rechargeable batteries shipped

More than 216 billion dry batteries sold in 120 countries...

216 billion

Assuming a 5 cm average length and laid end-to-end, a total of 216 billion dry batteries would extend for a distance of

10,500,000 km

13 That's thirteen times to the moon and back. Panasonic Battery Global Website for further details

Panasonic

Panasonic Energy Divisions⁽¹⁾ around the World

Inside Panasonic's Takumi Mind



Technical Development Takumi Thousands of prototypes, one winning formula





Of the infinite compositions that can comprise a battery's chemistry, it's the 87 years of accumulated knowledge inside a Takumi's head—and the thousands of prototype batteries they craft by hand—that decides the final formula used in our products. Takumi know-how joins with our suppliers' expertise as we develop unique materials to give Panasonic batteries an edge. Rather than relying on computer simulations, prototypes are exhaustively tested and promising designs refined to perfection. Panasonic honors Takumi spirit by continually deepening our knowledge pool with a commitment to surpass the world's best.

Production Takumi Production Lines: Flowing Like Water



Quality starts at home. We designed more than 100 production lines in 13 factories to our specification, and have built some facilities from scratch. Factories are our value creators. The challenge is to constantly improve our production so it flows like water. There is still much to learn from our predecessors (some lines are still in operation 50 years on), yet quality can leap forward with the advent of new technology, such as Al and robotics. It's balancing traditional and modern, volume and quality, that Takumi guide us. Our facilities are designed around people so their knowledge can be enriched and passed on to the artisans that follow.

Every aspect of our business, from research and development to production and quality control, is guided by the Takumi way. Takumi is Japanese for master craftsmanship, but it is more than that. They're artisans possessing an irreplaceable depth of experience that represents the sum of our knowledge in a specific area. Takumi are also responsible for building new technological developments into processes refined over decades, so that knowledge lives and grows. Takumi Mind balances experience with innovation as we strive to create batteries that make life better.

Quality Control Takumi Challenge Zero: How We Prevent Defects



Our products are tested against JIS/IEC standards as well as our own more rigorous standards. Each year, hundreds of thousands of products are tested in every conceivable simulated usage condition, frequently based on customer feedback. We identify potential issues and counter before defects occur. We're aiming to achieve a 0% defect rate through over-engineering, severe testing, and guality control. For example, we claim 10 years storage life on selected products because we're still testing them in-house 20 years later. Some batteries in test-tanks are operable after 50 years. Our rigorous testing program proves our batteries really are ready to use, even after long years in storage.







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Panasonic

Panasonic Energy Europe: Official Partner of Cirque du Soleil®

In 2018 Panasonic celebrated its 100 year anniversary and introduced the global "Bring Magic alive" campaign. As part of its "Bring Magic Alive" campaign. Panasonic teamed up with Cirgue du Soleil® for a major European partnership.



lote: The Cirgue du Soleil® WIN campaign runs from May until December 2019. All info on cirguedusoleil.panasonic-batteries.com Cirque du Soleil and Sun Logo are trademarks owned by Cirque du Soleil and used under license. Photo: © Twentieth Century Fox Film Corporation. TORUK THE FIRST FLIGHT and JAMES CAMERON'S AVATAR are trademarks of Twentieth Century Fox Film Corporation. All rights reserved.

Shopper insights: **Channel Approach**

To increase customer satisfaction and to put a smile on the face of consumers, Panasonic is developing specific approaches per channel, based on the needs and purchase behaviour of consumers.

If we look at the different channels - Retail Food, Retail Non-Food, Discount and E-Commerce - we see that the consumers each have specific needs and purchase behaviours. To serve our customers and the consumers even better, we gather specific channel-based intelligence, and we integrate a specific approach per channel.

Battery purchase behaviour



Main decision criteria

RETAIL NON-FOOD

NON-RECHARGEABLE

· Performance claim

- Battery technology
- Price
- Appliances

E-COMMERCE

NON-RECHARGEABLE

- Price
- Performance claim
- Pack size
- Appliances Promotion

(夏)

- Capacity
- Battery technology
- Price
- Appliances
- - RECHARGEABLE
 - Cycle life
 - Capacity
 - Battery technology
 - Price
 - Appliances

Source: PECE consumer/shopper researches 2009-2018



RETAIL FOOD

NON-RECHARGEABLE

- Price
- Performance claim
- Promotion
- Appliances
- Pack size

DISCOUNT

NON-RECHARGEABLE

- Price
- Pack size
- Promotion
- Performance claim
- Appliances

RECHARGEABLE

- Cycle life
- Capacity
- Price
- Battery technology
- Appliances



Panasonic Energy Europe,

your Professional Battery Partner

Panasonic Energy Europe: Headquarters

Panasonic Energy Europe is the European headquarters 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 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



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

A CLOSER LOOK AT OUR FACTORIES



BELGIUM FACTORY

Located in: Established in: Number of employees:

Tessenderlo, Belgium September 29th 1970 360 employees



Highly automated production of batteries using renewable energy.

RATTERY CATALOGUE



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



POLAND FACTORY

Gniezno, Poland Located in: Established in: December 15th 1993 Number of employees: 385 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











(1) Panasonic internal testing IEC61951-2 2011(7.5.1.3) on AA 1900 mAh; 500 cycles according to IEC61951-2 2017(7.5.1.4).



Panasonic



The Pinnacle of Alkaline Battery Technology

Panasonic's focus on research and development has helped to produce best in class alkaline batteries thanks to three unique technologies: Anti-Leak Protection to prevent damage to appliances. Triple Tough Coating to reduce contact resistance for greater reliability, and Extra Power Formula to maintain power for longer in high-drain devices. Our alkaline family has improved resistance to impact and short-circuit, and delivers high performance with industry-leading safety levels. For endurance and reliability in high-current applications, Panasonic is clearly the best choice.

Protect Your Precious Appliances

Unique Gas-Suppression Technology

Panasonic Alkaline cells feature advanced Anti-Leak Protection that suppresses the buildup of gas 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 appliances 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 period in storage. High-quality materials work to prevent degradation while Anti-Leak Protection minimizes the chance of leakage to ensure long-life stability before and during usage.

POWER PROTECTION 1 YEARS

PANASONIC BATTERIES PERFORM BEST IN **INDEPENDENT LEAK TESTING**

Independent testing for battery leakage resistance, conducted by leading certifications laboratory Intertek, has proven Panasonic Alkaline batteries are the most resistant to leaks in high-temperature and high-humidity conditions when the battery is in an unused state after a long period in storage. * Tested by Intertek under specified high-temperature, high-humidity conditions. Panasonic interpreted results according to in-house standards.

Quality & Performance Mark for EVOLTA



Note: Pro Power battery also certified



(2) Keeps energy for up to 10 years when not used (LRO3 - LR6 - LR14 - LR20). Not valid for APB.

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.

Conventional cell

Manganese dioxid Graph

EVOLTA

New high-purity manganese dioxi Titanium additiv

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.

Conventional cell

Low density High density Uneven density

EVOLTA

Homogenised densit

Structural Evolution

better impact resistance.

Uniform can thicknes Longer lasting performance is achieved thanks to an improved structural design allowing more space for active ingredients. **EVOLTA** A strong internal structure and a tough outer coating ensures far

Increased inner volum Ultra-thin can with varied thickness Thin gasket technology

All these technical innovations make EVOLTA the ULTIMATE LONG LASTING BATTERIES

(1) If used correctly (see backside of the blister)





l ess vol

Thick gaske







The EVOLTA concept was born from a combination of "evolution" and "voltage" (power) and our technology has grown to become respected throughout the industry. **EVOLTA** has the ultimate long lasting energy and consistently outperforms our competitors' premium products in commonly accepted independent performance tests.







ULTIMATE LONG LASTING **ENERGY**



(1) Keeps energy for up to 10 years when not used (LR03 - LR6 - LR14 - LR20).

3 Technological Evolutions





Structural Evolution	
Increased inner volume Ultra-thin can with varied thickness Thin gasket technology	



(2) If used correctly (see backside of the blister)

Specifications:

BLISTERS	Size	CSU EAN	Re-order N°	Batteries/ Blister
	LRO3 / AAA	5410853044840	LR03EGE/2BP	2
		5410853044871	LR03EGE/4BP	4
STANDARD		5410853044826	LR03EGE/6BP 4+2F	6
ND	LR6 / AA	5410853044758	LR6EGE/2BP	2
STA		5410853044789	LR6EGE/4BP	4
		5410853044734	LR6EGE/6BP 4+2F	6
	LR14 / C	5410853045137	LR14EGE/2BP	2
	LR20 / D	5410853045120	LR20EGE/2BP	2
	6LR61/9V	5410853045144	6LR61EGE/1BP	1

STERS	Size	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Pallet
	LRO3 / AAA	5410853044796	LRO3EGE/8BW 4+4F	8	12	360
OEB		5410853059226	LR03EGE/8BW 5+3F	8	12	360
MID		5410853044802	LR03EGE/8BW 6+2F	8	12	360
	LR6 / AA	5410853044703	LR6EGE/8BW 4+4F	8	12	256
		5410853059219	LR6EGE/8BW 5+3F	8	12	256
		5410853044710	LR6EGE/8BW 6+2F	8	12	256



BATTERY CATALOGUE

Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
12	5	164
12	5	164
12	-	410
12	5	114
12	5	114
12	-	216
12	5	75
12	5	40
12	5	84







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 a complete product line up, the **PRO POWER** battery is ideal for high and medium drain appliances.

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 esistance. The result? Enhanced energy flow and longer life.





ADVANCED

LONG LASTING

(1) Keeps energy for up to 10 years when not used (LR03 - LR6 - LR14 - LR20).

ENERGY



(2) If used correctly (see backside of the blister)

Specifications:

STERS	Size	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
	LRO3 / AAA	5410853040125	LR03PPG/2BP	2	12	5	164
Ш С		5410853039006	LR03PPG/4BP	4	12	5	164
STANDARD		5410853040156	LR03PPG/6BP 4+2F	6	12	-	410
	LR6/AA	5410853039891	LR6PPG/2BP	2	12	5	114
A A		5410853038948	LR6PPG/4BP	4	12	5	114
S		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
	6LF22/9V	5410853038979	6LF22PPG/1BP	1	12	5	84
		5410853041573	6LF22PPG/2BP	2	12	5	84
	3LR12 / 4.5V	5410853039037	3LR12PPG/1BP	1	12	4	80

WIDEBLISTERS	Size	CSU EAN	Re-order N°	Batteries/ Blister
	LRO3 / AAA	5410853040170	LR03PPG/8BW	8
Ш		5410853059103	LR03PPG/8BW 5+3F	8
		5410853040194	LR03PPG/8BW 6+2F	8
5		5410853048497	LR03PPG/10BW 6+4F	10
		5410853058977	LR03PPG/16BW 10+6F	16
	LR6 / AA	5410853039945	LR6PPG/8BW	8
		5410853059097	LR6PPG/8BW 5+3F	8
		5410853039969	LR6PPG/8BW 6+2F	8
		5410853048480	LR6PPG/10BW 6+4F	10
		5410853058960	LR6PPG/16BW 10+6F	16
	LR14 / C	5410853041504	LR14PPG/4BW	4
	LR20 / D	5410853041481	LR20PPG/4BW	4

PACKS	Size	CSU EAN	Re-order N°	Batteries/ CSU	CSU's, Cartor
	LRO3 / AAA	5410853040231	LR03PPG/12HH	12	24
A		5410853040255	LRO3PPG/12HH 8+4F	12	24
SPECIAL		5410853049487	LR03PPG/24CD	24	12
Ŋ		5410853058434	LR03PPG/30BB	30	12
	LR6 / AA	5410853040002	LR6PPG/12HH	12	20
		5410853040026	LR6PPG/12HH 8+4F	12	20
		5410853049463	LR6PPG/24CD	24	12
		5410853058373	LR6PPG/30BB	30	12

Multiple use: in shelf, basket, bottom of shelf.



ALKALINE RANGE



Blisters/ Carton	Cartons/ Pallet
12	360
12	360
12	360
12	360
6	360
12	256
12	256
12	256
12	256
6	256
12	336
12	98

Cartons/

Pallet

156

156

200

192

140

140

115

105

CSU's/

Carton





PRO POWER is most suitable for:



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



LR03EPS

AAA

24

ALKALINE RANGE

Everyday Power

ENERGY

LR14EPS

ſ

LR20EPS

D

6LF22EPS

9V

LONG LASTING

POWER PROTECTION **10** YEARS⁽¹⁾ FOR UP TO **10** IN STORAGE ANTI-LEAK⁽²⁾ PROTECTION

Panasonic's EVERYDAY POWER battery is an

ideal power solution for commonly used devices. It

EVERYDAY POWER batteries have an excellent

provides reliable and dependable power.

price versus quality ratio.

(2) If used correctly (see backside of the blister)

Specifications:

Size	CSU EAN	Re-order N°	Batteries/ Blister
LRO3 / AAA	5410853024750	LR03EPS/2BP	2
	5410853048077	LR03EPS/4BP	4
LR6 / AA	5410853024705	LR6EPS/2BP	2
	5410853047964	LR6EPS/4BP	4
LR14 / C	5410853047827	LR14EPS/2BP	2
LR20 / D	5410853047810	LR20EPS/2BP	2
6LF22/9V	5410853047971	6LF22EPS/1BP	1

WIDEBLISTERS	Size	CSU EAN	Re-order N°	Batteries/ Blister
	LRO3 / AAA	5410853048015	LR03EPS/8BW	8
		5410853048008	LR03EPS/8BW 6+2F	8
\geq		5410853049340	LR03EPS/10BW 6+4F	10
		5410853048039	LR03EPS/16BW	16
	LR6/AA	5410853047889	LR6EPS/8BW	8
		5410853047872	LR6EPS/8BW 6+2F	8
		5410853049326	LR6EPS/10BW 6+4F	10
		5410853047902	LR6EPS/16BW	16

Size	CSU EAN	Re-order N°	Batteries/ CSU
LRO3 / AAA	5410853051770	LR03EPS/12HH	12
	5410853061953	LRO3EPS/12HH 8+4F	12
	5410853047995	LR03EPS/24CD	24
	5410853061618	LR03EPS/40CB	40
LR6 / AA	5410853051763	LR6EPS/12HH	12
	5410853047926	LR6EPS/12HH 8+4F	12
	5410853047841	LR6EPS/24CD	24
	5410853061601	LR6EPS/40CB	40





WWW.PANASONIC-BATTERIES.COM



LR6EPS

AA

ALKALINE RANGE

Blisters/ Carton	Cartons/ Bundle	Bundles/ Pallet
12	5	164
12	5	164
12	5	114
12	5	114
12	5	75
12	5	40
12	5	84



Blisters/ Carton	Cartons/ Pallet
12	360
12	360
12	360
6	360
12	256
12	256
12	256
6	256





CSU's/ Carton	Cartons/ Pallet
24	156
24	156
12	200
6	288
20	140
24	156
12	112
6	156

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



Ni-MH Rechargeable Ready to Use

Panasonic rechargeable batteries are ready to use immediately after purchase

(excluding Panasonic High Capacity range)

Why rechargeable batteries?



ECO FRIENDLY

ŕðì **IDEAL FOR USAGE IN HIGH DRAIN APPLIANCES**

ß LIFE EXPECTANCY Panasonic rechargeable batteries can be charged up to 1000 times⁽¹⁾.

POWER CONSUMPTION

During usage Panasonic rechargeable batteries offer a more steady flow of energy to the device than alkaline.

COST SAVING

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

(1) Panasonic internal testing IEC61951-2 2011(7.5.1.3) on AA 1900 mAh; 500 cycles according to IEC61951-2 2017(7.5.1.4).



Panasonic

Panasonic's Ready to Use rechargeable batteries





For FREQUENT

users

For HEAVY users

STAY

CHARGED



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

anason



For OCCASIONAL users



For DECT telephones

ALL PANASONIC RECHARGEABLE **BATTERIES ARE PRE-CHARGED AND** STAY CHARGED UP TO 365 DAYS.⁽²⁾

READY TO USE AND IDEAL FOR REPEATED USE IN HIGH DRAIN DEVICES.

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



Ready to Use

min. 2,450_{mah} (AA) - 900_{mah} (AAA)



Size	Min. capacity mAh	Cycle life	Self discharge after 1 year ⁽¹⁾
AA	2,450 mAh	Up to 500 times $^{\scriptscriptstyle (2)}$	80%
AAA	900 mAh	Up to 500 times $^{\scriptscriptstyle (2)}$	80%

Specifications:

STERS	Size	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
BLI	AA	5410853050872	HHR-3XXE/2BC	2	12	5
КD	AA	5410853050865	HHR-3XXE/4BC	4	12	5
IDA	AAA	5410853050896	HHR-4XXE/2BC	2	12	5
TAN	AAA	5410853050889	HHR-4XXE/4BC	4	12	5
ST ST	AAA	3410033030007	ΠΠΛ-4ΛΛΕ/4DU	4	1Z	J

FOR HEAVY USERS





Most suitable for:



PRODUCT BENEFITS

- Ready to use: you can use them immediately after purchase
- Stay charged: after 1 year ⁽¹⁾
- High capacity: up to 6x longer lasting than Alkaline⁽²⁾
- Combines 'ready to use' with 'high capacity' at the same time
- Specially designed for consumers with a focus on power
- Provide an ideal power solution for frequently used high drain applications

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







(2) Panasonic internal testing IEC61951-2 2011(7.5.1.3); 150 cycles according to IEC61951-2 2017(7.5.1.4).



Ready to Use min. **1,900**_{mAh} (AA) - **750**_{mAh} (AAA)

FOR FREQUENT USERS





Most suitable for:

片



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Size	Min. capacity mAh	Cycle life	Self discharge after 1 year ⁽¹⁾
AA	1,900 mAh	Up to 1,000 times ⁽²⁾	80%
AAA	750 mAh	Up to 1,600 times ⁽²⁾	80%

Specifications:

STERS	Size	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
BLISTI	AA	5410853045243	HHR-3MVE/2BC	2	12	5
\cap	AA	5410853045250	HHR-3MVE/4BC	4	12	5
IDARI	AAA	5410853045267	HHR-4MVE/2BC	2	12	5
STANI	AAA	5410853045274	HHR-4MVE/4BC	4	12	5
ഗ	С	5410853034537	HHR-2SRE/2B ⁽²⁾	2	12	5
	D	5410853034520	HHR-1SRE/2B ⁽²⁾	2	12	5

PRODUCT BENEFITS

- Ready to use: you can use them immediately after purchase
- Stay charged: after 1 year⁽²⁾
- 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. Excluding D/C.

	4	
Pa	anason	
READY	TO USE	
	Panasonic	
	Panasonic	capacity
ð	POWER YOUR DAY	1900 mAh
_		

AAA NIMH	4	
Pa	nason Recharge	
READY TO	D USE	
¥	Paraelonia	
Ĩ	Paragonic	capacity
ē	POWER YOUR DAY	min. 750 mAh









Ready to Use

min. I,000_{mAh} (AA) and telephone batteries









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Ready to Use 1000

Size	Min. capacity mAh	Cycle life	Self di
AA	1,000 mAh	Up to 2,100 times $^{\scriptscriptstyle (2)}$	

Telephone batteries

Size	Min. capacity mAh	Cycle life	Self di
AA	1,000 mAh	Up to 2,100 times $^{(2)}$	
AAA	750 mAh	Up to 1,600 times $^{(2)}$	

Specifications:

STERS	Size	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
ВЦ	AA	5410853046011	HHR-3LVE/2BC	2	12	5
D D	AA	5410853045304	HHR-3LVE/4BC	4	12	5
IDA	AAA	5410853045359	HHR-4MVE/2BD	2	12	5
TAN	AAA	5410853045366	HHR-4MVE/3BD	3	12	5
S –						

READY TO USE 1000 PRODUCT BENEFITS

- Ready to use: you can use them immediately after purchase
- Stay charged: after 1 year⁽¹⁾
- Ideal for the occasional rechargeable battery user
- Long cycle life: up to 2,100 cycles

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

(2) Panasonic internal testing IEC61951-2 2011(7.5.1.3); 900 cycles according to IEC61951-2 2017(7.5.1.4).

lischarge after 1 year ⁽¹⁾				
	80%			
lischa	rge after 1 year ⁽¹⁾			
lischa	<mark>rge after 1 year</mark> (1) 80%			





TELEPHONE BATTERIES PRODUCT BENEFITS

- 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



High Capacity for High Drain Devices

Avg. 2,700 mAh - 1,000 mAh



Size	Min. capacity mAh	Cycle life
AA	2,500 mAh	Up to 300 times ⁽¹⁾
AAA	930 mAh	Up to 300 times ⁽¹⁾

Specifications:

Size	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
AA	5410853052791	BK-3HGAE/2BE	2	12	5
AA	5410853052807	BK-3HGAE/4BE	4	12	5
AAA	5410853052821	BK-4HGAE/2BE	2	12	5
AAA	5410853058687	BK-4HGAE/4BE	4	12	5
AA	5410853052777	BK-3HGAE/BF1	1	500	-
AAA	5410853052814	BK-4HGAE/BF1	1	500	-
	AA AA AAA AAA AA	AA5410853052791AA5410853052807AAA5410853052821AAA5410853052821AAA5410853058687AA5410853052777	AA 5410853052791 BK-3HGAE/2BE AA 5410853052807 BK-3HGAE/4BE AAA 5410853052821 BK-4HGAE/2BE AAA 5410853058687 BK-4HGAE/4BE AAA 5410853058687 BK-4HGAE/4BE AAA 5410853052777 BK-3HGAE/4BE	Size CSU EAN Re-order N° Blister AA 5410853052791 BK-3HGAE/2BE 2 AA 5410853052807 BK-3HGAE/4BE 4 AAA 5410853052821 BK-4HGAE/2BE 2 AAA 5410853052821 BK-4HGAE/2BE 2 AAA 5410853058687 BK-4HGAE/4BE 4 AAA 5410853052777 BK-3HGAE/BF1 1	Size CSU EAN Re-order N° Blister Carton AA 5410853052791 BK-3HGAE/2BE 2 12 AA 5410853052807 BK-3HGAE/4BE 4 12 AAA 5410853052821 BK-4HGAE/2BE 2 12 AAA 5410853052821 BK-4HGAE/2BE 2 12 AAA 5410853058687 BK-4HGAE/4BE 4 12 AAA 5410853052777 BK-3HGAE/BE1 1 500

FOR HIGH DRAIN **APPLIANCES**





HIGH CAPACITY BATTERIES are most suitable for:





PRODUCT BENEFITS

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



(1) Panasonic internal testing IEC61951-2 2011(7.5.1.3) on AA 1900 mAh (varies according to conditions of use).





HIGH CAPACITY



CHARGERS

Panasonic

METE BETTE ALL & ANA

Panasonic



Smart & Quick charger – BQ CC55

- Rapid charge
- Individual management/
- Can be used all over the world (100-240 V)

charge control ("S	mart Charge ⁽¹⁾ ") • C	Case color: white
ltem	Specifications	
Input	AC100-240V 50-60Hz	
Input part Structure	Fixed plug	
Charging control	Smart Charge ¹ / - Δ V / Timer	
Indicator	LED x 4 Charging: ON, Fully charg	ed: OFF
Charger battery	AA x 1, 2, 3, 4 / AAA x 1, 2, 3, 4 ce	lls
Charging time ⁽²⁾	AA: Approx 1.5 hours / 3 hours [2, AAA: Approx 1.5 hours / 3 hours [8	
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

⁽¹⁾ 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/-ΔV Control ltem **Specifications** Input AC 100-240 V 50-60 Hz Input part Structure Fixed plug Charging control $-\Delta V$ /Timer LED x 4 Charging: ON, Fully charged: OFF Indicator 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⁽²⁾ Charger size (W x H x D) 65 x 105 x 70 mm

Weight

1	Panasonic
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	Vanuel Vanuel Vanuel

Can charge AA / AAA 2 or 4 cells

107,4 g

- Can be used all over the world (100-240 V)
- Timer control • Case color: white

Case color: white

ltem	Specifications			
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 ⁽²⁾	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
- Free 5 year warranty for added reassurance
- · All chargers have lead-free soldering, less harmful for the environment

Compact charger – BQ CC50

- Can charge AA / AAA 2 cells
- Can be used all over the world (100-240 V) •

ltem	Specifications
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 charge
Charger battery	AA x 1, 2 / AAA x 1, 2 cells
Charging time ⁽²⁾	AA: Approx 10 hours; AAA: Approx
Charger size (W x H x D)	50 x 121 x 66.2 mm (EU) / 50 x 121 x
Weight	with EU-plug: 86 g - with UK-plug: 9

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) •

	· /
ltem	Specifications
Input	AC 100-240 V 50-60 Hz
Input part Structure	AC cable
Charging control	Timer cut (13 hours) Individual
Indicator	LED x 2 Charging: ON, Fully charge
Charger battery	AA x 1-4 / AAA x 1-4 / C x 1-4 / D x
Charging time ⁽²⁾	AA: Approx 6 hours; AAA: Approx 6
Charger size (W x H x D)	110 x 200 x 55 mm
Weight	with EU-plug: 489 g - with UK-plug: 4

Charger	Re-order N° (Kit)	CSU EAN	Batteries included in kit	Blister size (mm) (W x H x D)	Blisters/ Carton
BQ-CC55	K-KJ55MGD40E	5410853057789	4x P6 1900	105 x 200 x 72	8
BQ-CC55	K-KJ55MGD40U	5410853057802	4x P6 1900	105 x 200 x 72	8
BQ-CC17	K-KJ17MGD40E	5410853057796	4x P6 1900	105 x 200 x 72	8
BQ-CC51	K-KJ51MGD42E	5410853056973	4x P6 1900 / 2x P03 750	105 x 200 x 72	8
BQ-CC51	K-KJ51MGD40U	5410853057819	4x P6 1900	105 x 200 x 72	8
BQ-CC50	K-KJ50LGA20E	5410853056966	2x P6 1900	105 x 200 x 72	8
BQ-CC15	BQ-CC15E	5025232672141		167 x 342 x 67	8

(3) AA/AAA 2 cells.

FREQUENT USERS

OCCASIONAL USERS

- Worldwide compatibility
- Safety: non rechargeable detection
- LED Timer ready indication
- For all Ni-MH batteries



when charged (ΔV) Case color: white



499 g



MULTI BATTERY TYPES



COIN LITHIUM

SPECIAL PANASONIC SEALING TECHNOLOGY Ensure a low self discharge rate and high battery performance especially after storage.



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

New child safety packaging

Lithium battery storage safety tips:

- Keep all batteries in a sealed container in a high cupboard.
- Keep products well out of reach if the battery compartment isn't secured.
- Put 'flat' or 'dead' batteries out of reach straight away and recycle safely.



Panasonic recommends to keep batteries out of childrens' reach. If you suspect your child has swallowed a lithium battery, act this:

Take your child straight to hospital.

www.panasonic-batteries.com

Do not let your child eat or drink. Do not induce vomiting.







Specifications:

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

NEW child safety packaging 🕅

COIN LITHIUM is most suitable for:



Blisters/ Innercarton	Innercartons/ Bundle
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
20	5
12	10
12	10
12	10
20	5
12	10
12	10
12	10
20	5
12	10
12	10
12	10









HIGH VOLTAGE Panasonic coin lithium batteries give more power with an output of 3V

-30 °C UP TO 60 °C This battery offers reliable power even in a wide range of operating temperatures



UP TO 10 YEARS These batteries can be stored for up to 10 years without use



ECO BENEFITS Panasonic coin lithium batteries have 0% mercury added



CYLINDRICAL LITHIUM



FOR LIGHT WEIGHT APPLIANCES POWER











2CR5



CRP2

Specifications:

BLISTERS	Model N°	CSU EAN	Re-order N°	Batteries/ Blister
IST	CR2	5025232016082	CR-2L/1BP	1
В		5410853013464	CR-2L/2BP	2
	CR123	5410853017097	CR-123AL/1BP	1
		5410853017110	CR-123AL/2BP	2
	2CR5	5410853017158	2CR-5L/1BP	1
	CRP2	5410853017134	CR-P2L/1BP	1

CYLINDRICAL LITHIUM is most suitable for:





-40 °C UP TO 70 °C Lithium batteries offer temperatures

DENSITY

SAFETY GUARANTEE

Using 4 built-in safety features, Panasonic ensures a safe 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.

Blisters/ Innercarton	Innercartons/ Bundle
10	10
10	10
10	10
10	10
10	10
10	10



HIGHER ENERGY

Due to lithium based reliable power

reliable power in extreme



UP TO 10 YEARS These batteries can be stored for up to 10 years without use



RAPID FLASH RECOVERY TIME Low internal resistance to provide rapid flash recovery and quick shooting



MICRO ALKALINE



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



Specifications:

BLISTERS	Model N°	CSU EAN	Re-order N°	Batteries/ Blister	Blisters/ Innercarton	Innercartons/ Bundle
В	LR41	5410853061700	LR-41EL/1B	1	12	10
	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







OPTIMAL LEAKAGE RESISTANCE sealing technique

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





STABLE DISCHARGE Optimal & stable discharge results and

excellent high drain discharge characteristics

Designed to avoid leakage as a result of advanced



ECO BENEFITS Panasonic micro alkaline batteries have 0% mercury added



UP TO 3 YEARS These batteries can be stored for up to 3 years without use



SILVER OXIDE







Specifications:

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







SR927











SR936

















SR626

SR41







SR44





SR920

4SR44







BATTERY CATALOGUE

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.

Blisters/ Innercarton	Innercartons/ Bundle
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
12	10
10	10





HIGH PERFORMANCE

Premium materials (silver) and construction (separator) ensures a high battery performance

STABLE DISCHARGE Premium materials (silver) ensure a stable discharge performance



ECO BENEFITS Panasonic silver oxide batteries have 0% mercury added



UP TO 3 YEARS These batteries can be stored for up to 3 years without use



ZINC AIR



Specifications:

STERS	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.

USER GUIDELINES:



ZINC AIR



CONDITIONS

U

FOR HEARING AID





PR13



PR312



is suitable for:



VARIOUS TEMPERATURE The battery gives a reliable power in various temperature conditions to enjoy outdoor activities longer.

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.



LONGER PREFORMANCE Designed to provide longer lasting performance in appliances



NEW GENERATION Excellent for the latest generation of Bluetooth hearing aids



STEADY HIGH PERFORMANCE LEVEL The energy stays the best at all time in this light weight battery.



DISPLAYS Multiple locations in store

As battery purchases are mainly impulse driven, locating batteries at multiple locations in stores is very important: at the battery shelf, near the toy/electro shelf, in secondary placement via displays and at the checkout. Placing displays at multiple locations is the key to a succesful battery business and can lead to a significant increase in sales.



DISPLAYS AT MULTIPLE LOCATIONS

1 standard battery shelf

- 2 displays near battery operated appliances (e.g. toys, electronics, DECT phones)
- 8 floor displays at gondola end

- 4 side hangers
- 6 magnetic displays (e.g. attached to baskets)
- 6 counter displays at checkout



with a dedicated **COIN COUNTER DISPLAY**

COIN REFERENCE TABLE ON BACKSIDE!

- ✓ Growing category: +12% pieces sold in 2018 vs. 2017⁽¹⁾
- Child safety / anti-theft packaging
- ✓ Long shelf life (10 years)
- ✓ Reliable and long lasting power



(1) GfK 2018/12 EU6; 2018 vs 2017 in pieces of miniature cells.

BATTERY CATALOGUE

COIN COUNTER DISPLAY Carton promotional



(2) If coin 2B filling; 3 references if coin 4BP filling



COUNTER DISPLAYS Carton promotional



- Horizontal facing
- Pre-filled
- Suitable for different types of packaging Topcard with extra communication possible

Height excl. topcard	90 mm
Width	190 mm
Depth	390 mm
Topcard dimensions	H 185 x W 170 mm
Net weight (1)	0.155 kg
# product facings	N.A.
Max # AA/8BW	30
Possible with or with	out topcard

COIN counter display



4 IN 1 DISPLAY

Stand alone

Stackable

On top of a 15WSU floor display

Hanging on hooks

Height incl. topcard	185 mm
Width	275 mm
Depth	62 mm
Topcard dimensions	H 55 x W 273 mm
Net weight	0.107 kg
# product facings	5 (3 if 4BP
Max # AA/8BW	60 (36 if 4BP
# displays / pallet	288

Counter display F2

- Vertical facing (shelf ready packaging) Pre-filled
- Stackable
- Flip-up topcard

Height incl. topcard	260 mm
Width	190 mm
Depth	195 mm
Topcard dimensions	H 135 x W 190 mm
Net weight (1)	0.110 kg
# product facings	1 (2 if 4BP)
Max # AA/8BW	12
Possible with or without	out topcard

Counter display F4

 Qualitative counter display Pre-filled Flip-up topcard

Excellent product visibility & accessibility

Height incl. topcard	265 mm
Width	375 mm
Depth	185 mm
Topcard dimensions	H 141 x W 375 kg
Net weight ⁽¹⁾	0.147 kg
# product facings	2 (4 if 4BP)
Max # AA/8BW	24

12W Pop up floor display



Pop-up foot & flip-up topcard

- Pre-filled
- · Easy to mount / fast setup · Less waste (only carton materials)
- Display fits in a car

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

- Flip-up topcard Pre-filled & mounted, less handling
- Delivered on 1/4 pallet for safe and easy transportation
- Mono material carton display
- · 100% ready to sell

allet 1625 cm
560 mm
395 mm
H 320 x W 560 mm
4.6 kg
15
N.A.
213
4

(1) Displays weight is excluding display filling.

FLOOR DISPLAYS Carton promotional





- Pre-filled & mounted
- Delivered on 1/4 pallet
- for safe and easy transportation
- Suitable for different types of packaging
- Mono material carton display

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

NOTE: Display types may vary from country to country. Please contact your local representative/dealer.



COUNTER DISPLAYS Metal permanent



Height	655 mm
Width	220 mm
Depth	200 mm
Net weight ⁽¹⁾	2.5 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	8
Max. # D/2BP per hook	6
Max. # 9V/1BP per hook	11
For single blisters and wideblist	sters



Height	805 mm
Width	315 mm
Depth	200 mm
Net weight (1)	3.7 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	8
Max # D/2BP per hook	6
Max. # 9V/1BP per hook	11
For single blisters and wideblister	ers



Height	655 mm
Width	220 mm
Depth	200 mm
Net weight (1)	2.5 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	8
Max. # D/2BP per hook	6
Max. # 9V/1BP per hook	11
For single blisters and wideblister	rs

Flat packed counter display

Height

Width

Depth

Net weight

N° of hooks

Hook length

Max. # AA/4BP per hook

Max. # AAA/4BP per hook

Max. # C/2BP per hook

Max. # D/2BP per hook Max. # 9V/1BP per hook

Max. # coin/1B per hook

For single blisters and wideblisters

660 mm

220 mm

275 mm

3.192 kg

16.5 cm

10

12

15

6

9

36

9	H counter display	
	315 mm The second secon	
Hoight	660 -	

Height	660 mm
Width	315 mm
Depth	200 mm
Net weight (1)	3.4 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	8
Max # D/2BP per hook	6
Max. # 9V/1BP per hook	11
For single blisters and wideblister	rs



Height	230 mm
Width	105 mm
Depth	195 mm
Net weight (1)	0.382 kg
N° of hooks	1
Hook length	16.5 cm
Max # AA/4BP per hook	12
Max # AAA/4BP per hook	15
Max # C/2BP per hook	6
Max # D/2BP per hook	5
Max. # 9V/1BP per hook	9
For single blisters only	

4H magnetic	
105 mm 400 mm	1
	300 mm
	¥

Height	300 mm
Width	400 mm
Depth	195 mm
Net weight ⁽¹⁾	1.045 kg
N° of hooks	4
Hook length	16.5 cm
Max # AA/4BP per hook	12
Max # AAA/4BP per hook	15
Max # C/2BP per hook	6
Max # D/2BP per hook	5
Max. # 9V/1BP per hook	9
Max. # coin/1B per hook	36
For single blisters and wideblis	sters

(1) Displays weight is excluding display filling.

MAGNETIC DISPLAYS Metal permanent

2H magnetic horizontal



Height
Width
Depth
Net weight ⁽¹⁾
N° of hooks
Hook length
Max # AA/4BP per ho
Max # AAA/4BP per h
Max # C/2BP per hool
Max # D/2BP per hool
Max. # 9V/1BP per ho
For single blisters and

5H magnetic



Height
Width
Depth
Net weight ⁽¹⁾
N° of hooks
Hook length
Max # AA/4BP per hoo
Max # AAA/4BP per ho
Max # C/2BP per hook
Max # D/2BP per hook
Max. # 9V/1BP per hoo
Max. # coin/1B per hoc
For single blisters and v



	210 mm
	200 mm
	195 mm
	0.926 kg
	2
	16.5 cm
k	12
ok	15
	6
	5
k	9
widebliste	rs

2H magnetic vertical

Height	360 mm
Width	105 mm
Depth	195 mm
Net weight (1)	0.708 kg
N° of hooks	2
Hook length	16.5 cm
Max # AA/4BP per hook	12
Max # AAA/4BP per hook	15
Max # C/2BP per hook	6
Max # D/2BP per hook	5
Max. # 9V/1BP per hook	9
For single blisters only	



NOTE: Display types may vary from country to country. Please contact your local representative/dealer.



SIDEHANGERS Metal permanent



Height	758 mm
Width	102 mm
Depth	135 mm
Net weight (1)	1.4 kg
N° of hooks	5 fixed
Hook length	11.5 cm
Max # AA/4BP per hook	7
Max # AAA/4BP per hook	9
Max # C/2BP per hook	4
Max # D/2BP per hook	3
Max. # 9V/1BP per hook	6
For single blisters only	



Height	620 mm
Width	185 mm
Depth	230 mm
Net weight ⁽¹⁾	2 kg
N° of hooks	8 fixed
Hook length	20.5 cm
Max # AA/4BP per hook	13
Max # AAA/4BP per hook	17
Max # C/2BP per hook	8
Max # D/2BP per hook	6
Max. # 9V/1BP per hook	12
For single blisters and wideblist	ers



Height	758 mm
Width	102 mm
Depth	120 mm
Net weight ⁽¹⁾	1.2 kg
N° of hooks	5 fixed
Hook length	11.5 cm
Max # AA/4BP per hook	7
Max # AAA/4BP per hook	9
Max # C/2BP per hook	4
Max # D/2BP per hook	3
Max. # 9V/1BP per hook	6
For single blisters only	

For single blisters only							
14H premium ma	gnetic strip						
200 mm	285 mm						
	7 170 mm						
Height							
	- 7170 mm						
Height	7 _{170 mm}						
Height Width	1285 mm 200 mm						
Height Width Depth	1285 mm 200 mm 170 mm						
Height Width Depth Net weight ⁽¹⁾	1285 mm 200 mm 170 mm 4.4 kg						



Height	830 mm
Width	150 mm
Depth	135 mm
Net weight (1)	0.8 kg
N° of hooks	5 fixed
Hook length	11.5 cm
Max # AA/4BP per hook	7
Max # AAA/4BP per hook	9
Max # C/2BP per hook	4
Max # D/2BP per hook	3
Max. # 9V/1BP per hook	6
For single blisters only	



8

Max # C/2BP per hook Max # D/2BP per hook Max. # 9V/1BP per hook

For single blisters and wideblisters





Height	2030 mm
Width	495 mm
Depth	365 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	25
Max # C/2BP per hook	12
Max # D/2BP per hook	9
Max. # 9V/1BP per hook	16
For single blisters and wideblisters	

(1) Displays weight is excluding display filling.

FLOOR DISPLAYS Metal permanent



NOTE: Display types may vary from country to country. Please contact your local representative/dealer.

For single blisters and wideblisters



Online communication



www.panasonic-batteries.com

- Responsive design
- (desktop + tablet + smartphones)
- Monthly blog posts
- Frequently asked questions

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- product visuals
- sales folders
- technical data
- logos
- advertisements
- lifestyle visuals
- movies
- etc.

Ask your local sales contact for more info!

EVOLTA

UCENT.								
Model N°	S	ize	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°	S	ize	Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LRO3PPG	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
6LF22PPG	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
6LF22EPS	9V	9V	Alkaline	9	47.5	25.25 x 16.3	42.9	5

Alkaline Power

Model N°	S	ize	Technology	Voltage (V)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LRO3APB	S	AAA	Alkaline	1.5	44.5	10.5	10.8	7
LR6APB	М	AA	Alkaline	1.5	50.5	14.5	22.8	7
LR14APB	L	С	Alkaline	1.5	50	25.7	66.6	7
LR20APB	XL	D	Alkaline	1.5	61.5	33.6	136.5	7
6LF22APB	9V	9V	Alkaline	9	47.5	25.25 x 16.3	42.9	5

Red Zinc			
Model N°	S	ize	Technology
RO3RZ	S	AAA	Zinc carbon
R6RZ	М	AA	Zinc carbon
R14RZ	L	C	Zinc carbon
R20RZ	XL	D	Zinc carbon
6F22RZ	9V	9V	Zinc carbon
3R12RZ	-	-	Zinc carbon
PP9RZ	-	-	Zinc carbon

Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
44	10.2	8.85	3
50.25	13.9	17.5	3
49.4	25.4	47.7	3
60.7	32.9	98.5	3
48.5	17.5 x 26.5	37.9	2.5
67	62 x 22	110	2.5
78	65 x 50	368.76	2
	44 50.25 49.4 60.7 48.5 67	44 10.2 50.25 13.9 49.4 25.4 60.7 32.9 48.5 17.5 x 26.5 67 62 x 22	44 10.2 8.85 50.25 13.9 17.5 49.4 25.4 47.7 60.7 32.9 98.5 48.5 17.5 x 26.5 37.9 67 62 x 22 110



Rechargeable Ready to Use 2450 - 900 mAh

Joan								
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°	Si	ze	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°	Si	ze	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

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

	0 00111						
Model N°	Technology	Voltage (V)	Capacity (mAh)	Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
LR41	Alkaline	1.5	44	3.60	4.90	0.60	3
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
LKI	Alkaline	1.5	900	30.20	12.00	9.20	

Silver Oxide Model N° Technology Capacity (mAh) Voltage (V) Silver Oxide 1.55 SR521 17 SR616 1.55 16 Silver Oxide SR621 1.55 Silver Oxide 23 SR626 Silver Oxide 1.55 28 1.55 25 SR721 Silver Oxide 1.55 SR920 Silver Oxide 45 1.55 55 SR927 Silver Oxide SR936 1.55 70 Silver Oxide SR1130 1.55 82 Silver Oxide SR41 Silver Oxide 1.55 45 SR44 Silver Oxide 1.55 180 4SR44 Silver Oxide 6.20 160

Zinc Air

Model N°	Technology	Voltage (V)	Capacity (mAh)
PR10 (PR230/PR536)	Zinc air	1.4	100
PR13 (PR48)	Zinc air	1.4	300
PR312 (PR41)	Zinc air	1.4	170
PR675 (PR44)	Zinc air	1.4	650

Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
2.15	5.80	0.24	3
1.65	6.80	0.25	3
2.15	6.80	0.31	3
2.60	6.80	0.39	3
2.10	7.90	0.41	3
2.05	9.50	0.60	3
2.70	9.50	0.80	3
3.60	9.50	1.07	3
3.10	11.60	1.50	3
3.60	7.90	0.70	3
5.40	11.60	2.40	3
25.10	13.00	11.00	3

Height (mm)	Diameter (mm)	Weight (g)	Shelf life (years)
3.6	5.8	0.30	3
5.4	7.9	0.83	3
3.6	7.9	0.58	3
5.4	11.6	1.85	3



Alkaline

PANASONIC	DURACELL	ENERGIZER	VARTA	KODAK	RAYOVAC	SONY	GP	OTHERS
1000	MN/MV2/00	F0.2	(100	1/0 /	0.27	4147	2/4(110)	
LR03 LR6	MN/MX2400 MN/MX1500	E92 E91	4X03 4X06	K3A KAA	824 815	AM4 AM3	24A(UP) 15A(UP)	AAA AA
LR14	MN/MX1500 MN/MX1400	E93	4X00 4X14	KC	814	AM3 AM2	14A(UP)	ſ
LR20	MN/MX1300	E95	4X14 4X20	KD	813	AM1	13A(UP)	D
6LR61/6LF22	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

-							
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

	with the second s					
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
LR41	-	-	-	LR41	-	-	LR41	192/LR41	LR41
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

DURACELL	ENERGIZER	VARTA	KODAK	
04.0	017	1017		0
			-	S
			-	S
321	321	V321	-	S
364	364/363	V364	-	S
377	377	V377	-	S
376	376	-	-	
362	362	V362	-	S
361	361	V361	-	
397/396	397/396	V397	-	S
371	371	V371	-	S
370	370	V370	-	;
395	395	V395	-	S
399	399	V399	-	
394	394/380	V394	-	S
391	391	V391	-	S
381	381	V381	-	S
390	390	V390	-	S
389	389	V389	-	S
384	384	V384	-	(
392	392	V392	-	
357/303	EPX76	V76PX/357/303	KS76	
PX28	544	V28PX	KS28	
	317 379 321 364 377 376 362 361 397/396 371 370 395 399 394 391 381 391 381 390 389 384 392 357/303	317 317 379 379 321 321 364 364/363 377 377 376 376 362 362 361 361 397/396 397/396 371 371 370 370 395 395 399 399 394 394/380 391 381 381 381 390 390 389 389 384 384 392 392 357/303 EPX76	317 317 V317 379 379 V379 321 321 V321 364 364/363 V364 377 377 V377 376 376 - 362 362 V362 361 361 V361 397/396 397/396 V397 371 371 V371 370 370 V370 395 395 V395 399 399 V399 394 394/380 V391 381 381 V381 390 390 V390 389 389 V389 384 384 V384 392 V392 392 357/303 EPX76 V76PX/357/303	317 317 V317 - 379 379 V379 - 321 321 V321 - 364 364/363 V364 - 377 377 V377 - 376 376 - - 361 362 V362 - 361 361 V361 - 370 371 V371 - 371 371 V371 - 370 370 V370 - 371 371 V371 - 370 370 V370 - 395 395 V395 - 391 391 V391 - 391 391 V391 - 381 381 V381 - 390 390 V390 - 384 384 V384 - 392 392 V392 -

Zinc Air

PANASONIC	DURACELL	ENERGIZER	
PR10(230)	10	10	
PR13	13	13	
PR312	312	312	
PR675	675	675	
PR675	-	EP675E	

CROSS REFERENCE TABLE

MAXELL	RAYOVAC	RENATA	PHILIPS	IEC
SR516SW	317	317	317	-
SR521SW	379	379	379	SR63
SR616SW	321	321	321	SR65
SR621SW	364	364	364	SR60
SR626SW	377	377	377	SR66
SR626W	376	376	376	-
SR721SW	362	362	362	SR58
SR721W	361	361	361	-
SR726SW	397	397	397	SR59
SR920SW	371	371	371	SR69
SR920W	370	370	370	-
SR927SW	395	395	395	SR57
SR927W	399	399	399	-
SR936SW	394	394	394	SR45
SR1120SW	391	391	391	SR55
SR1120W	381	381	381	-
SR1130SW	390	390	390	SR54
SR1130W	389	389	389	-
SR41SW	384	384	384	SR41
SR41W	392	392	392	-
SR44	357	357	357	SR44
-	RPX28	RPX28	RPX28	4SR44

VARTA	MAXELL	RAYOVAC
10	-	10
13	EP13E	13
312	EP312E	312
675	EP675E	675
-	675AP	-



For all batteries

Use the same battery type/technology



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 zinc 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.

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.

For Ni-MH rechargeable 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.

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.

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



Tips for enjoying better performance





Switch off your device after use **Remove batteries** from devices not in use for long periods

Also check the Frequently Asked Questions section on our Panasonic website for more info: www.panasonic-batteries.com/faq



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.





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