

# eneloop

Ready to use Rechargeable Battery <sup>TM</sup>

CATALOGUE 2019-2020



**Panasonic**



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# Panasonic Worldwide Group

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.

## COMPANY INFORMATION

Company name:	Panasonic Corporation
Head office location:	Osaka – Japan
President:	Kazuhiro Tsuga
Foundation:	March, 1918 (incorporated in December, 1935)
Net sales <sup>(1)</sup> :	7,982.2 billion yen
Number of employees <sup>(1)</sup> :	274,143
Number of consolidated companies <sup>(1)</sup> :	592 (including parent company)

<sup>(1)</sup> As of March 31, 2018.



# Panasonic

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 - A powerful Global Brand

14<sup>th</sup>

Best Regarded Company  
of the 2018 Forbes  
Global 2000 list <sup>(2)</sup>

<sup>(2)</sup> [www.forbes.com/top-regarded-companies/list](http://www.forbes.com/top-regarded-companies/list)

76<sup>th</sup>

Best  
Global Brand  
2018 <sup>(3)</sup>

<sup>(3)</sup> [www.interbrand.com](http://www.interbrand.com)

eneloop  
Ready to use Rechargeable Battery <sup>TM</sup>

# 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.

## 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.

## Appliances

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

## Life Solutions

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

## Connected Solutions

- Avionics
- Process Automation
- Media Entertainment
- Mobile Solutions
- Social Services, Logistics and Distribution

## Industrial Solutions

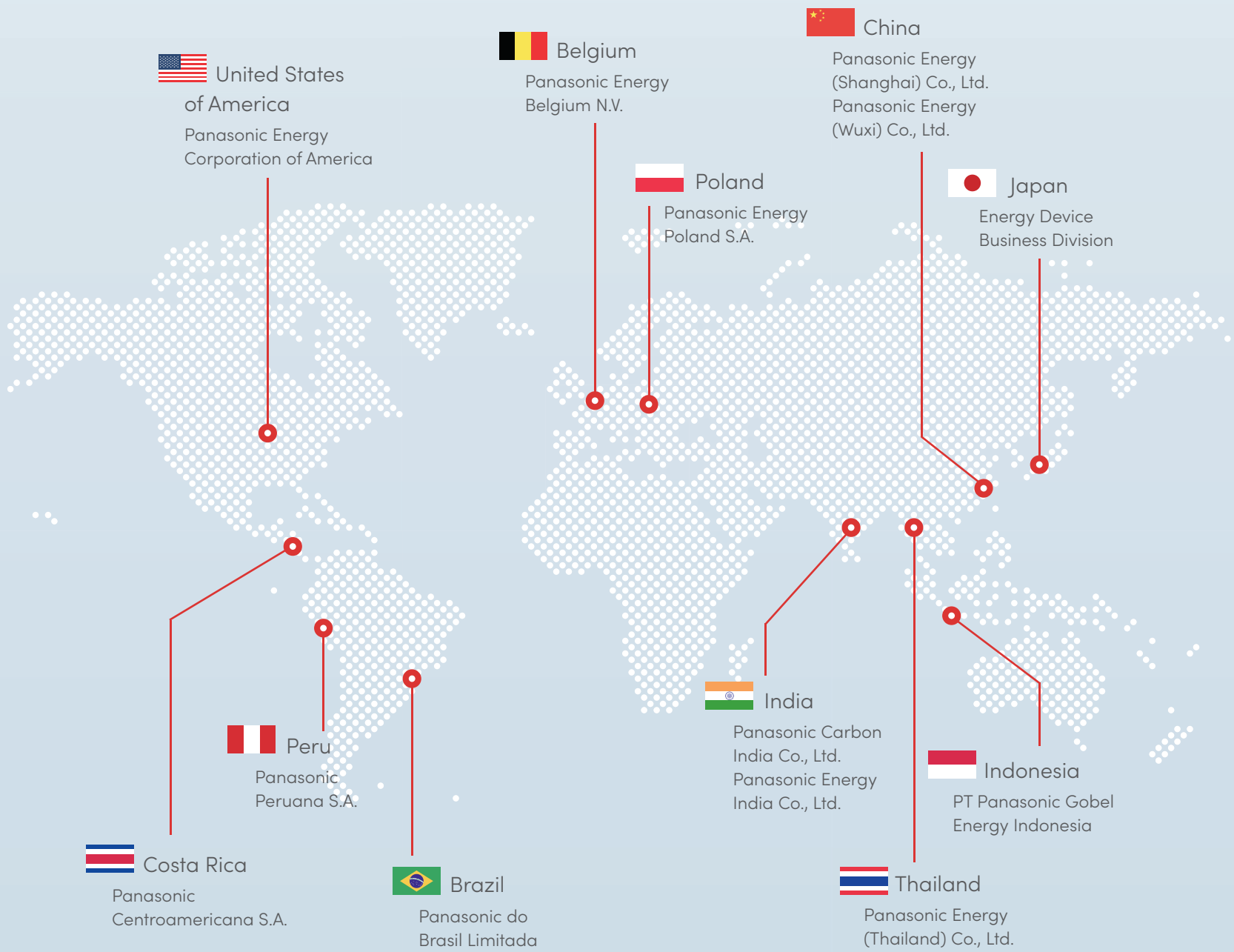
- Industrial Systems
- Consumer Batteries

## Automotive

- Automotive Solutions
- Energy Devices

# Panasonic Energy

## Divisions around the World







# Inside Panasonic's Takumi Mind

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. Takumi people are artisans possessing an irreplaceable depth of experience that represents the sum of their knowledge in a specific area. They 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.

## 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 Mind 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 AI and robotics. It is balancing between traditional and modern, volume and quality, with Takumi guiding us. Our facilities are designed around people so their knowledge can be enriched and passed on to the artisans that follow.

## 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 quality control. For example, we claim 10 years storage life on select 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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# Design Takumi

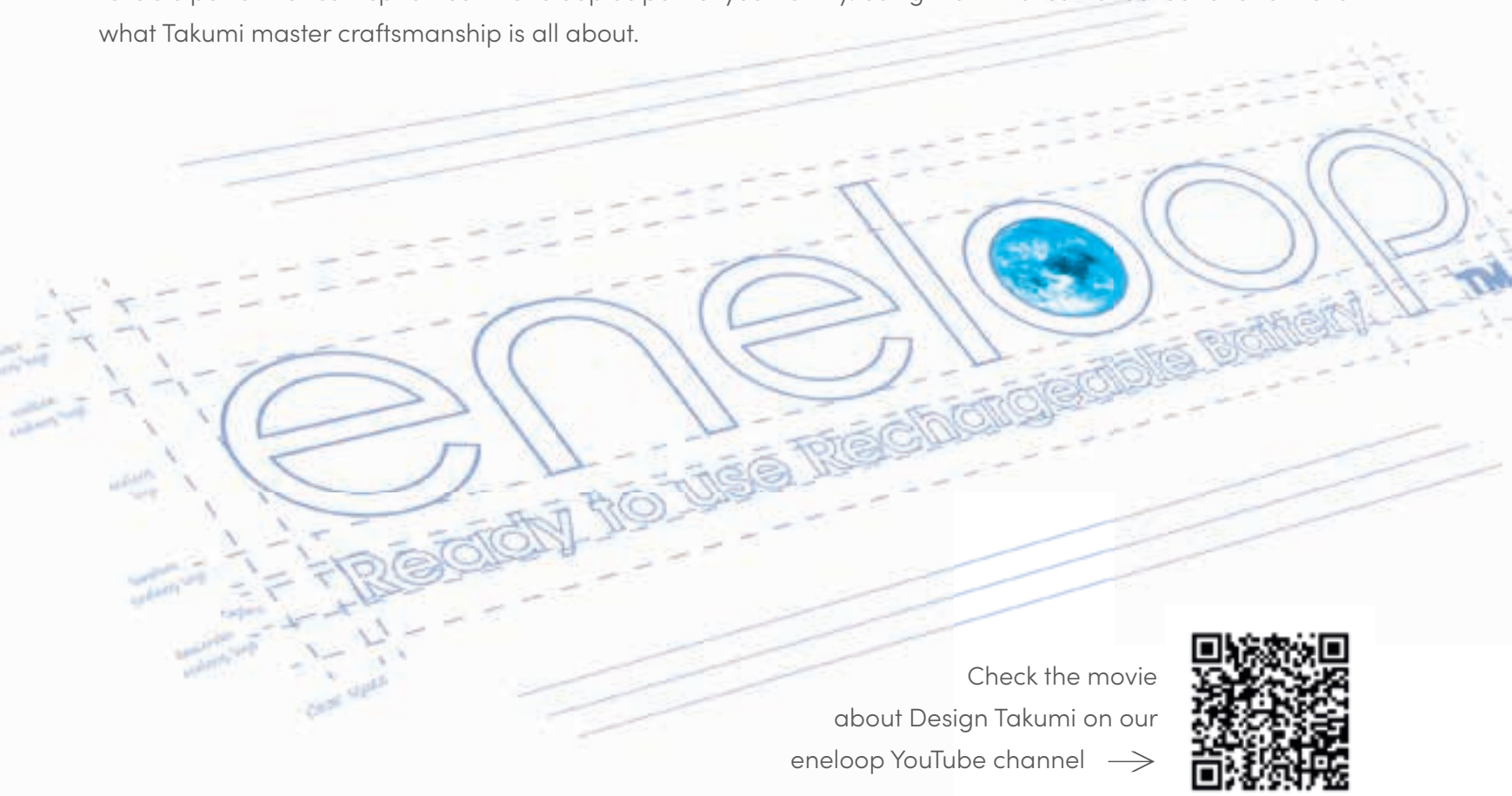
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Design Takumi

## Designed for Earth, Designed for Life

Takumi transforms the ordinary. In the hands of artisans, eneloop has emerged as a product not just to use, but to enjoy. By combining the convenience of a dry battery with the benefits of a reusable battery, sustainable life and the goal of a cleaner energy society comes closer to reality. Panasonic eneloop helps to reduce your ecological footprint by eliminating waste from used batteries. It arrives pre-charged with solar energy and every time it's recharged, there's a genuine satisfaction that the world's resources are being saved. Years of reliable performance inspire trust in eneloop as part of your family. Using them makes life feel better and that's what Takumi master craftsmanship is all about.



Check the movie  
about Design Takumi on our  
eneloop YouTube channel →



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# Japan Package & Global Design Awards

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Design Takumi

## Japan Package Design Award

Bronze Award

### Japan Package Design Association



This biennial competition gives packaging designers an opportunity to have the value of their work assessed by industry experts, who examine design aspects such as quality, innovation, and creativity. Panasonic's eneloop packaging design – which distills product concepts of functionality and sustainability into the packaging itself – was highly acclaimed.

Design Takumi

## Global Design Awards

The eneloop family of products and their packaging has attracted accolades from the world's most prestigious institutions, including Germany's iF Design Awards.



Good Design Award  
Gold Prize 2006

Australian International  
Design Awards 2009



Japan Package Design  
Award Gold Prize 2007

Australian International  
Design Awards 2009



iF Product Design Award  
Product Design 2009

Long Life Design 2016



<sup>(1)</sup> Based on market research conducted by INTAGE SRI on the sales amount for batteries in the Japan market, from Jan. 2014 to Dec 2018.

# What is eneloop?

The only battery  
you will ever  
need!

---

eneloop is the pre-charged,  
long-life, recyclable rechargeable  
battery that saves energy and  
money by being able to be  
charged and discharged  
even up to 2100 times <sup>(1)</sup>.

---

## eneloop represents a new lifestyle

eneloop is the next generation of  
environmentally friendly batteries  
that combines the convenience  
of primary batteries with the  
advantages of rechargeable  
batteries. It is Ready to Use  
straight after purchasing and it  
can be stored for a long period  
of time.

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Help change the  
future of our  
environment by  
changing your  
battery

How many batteries are we using  
and throwing away every year...  
What can we do to save our  
environment...  
What is the idealistic Eco-friendly  
battery for the future...

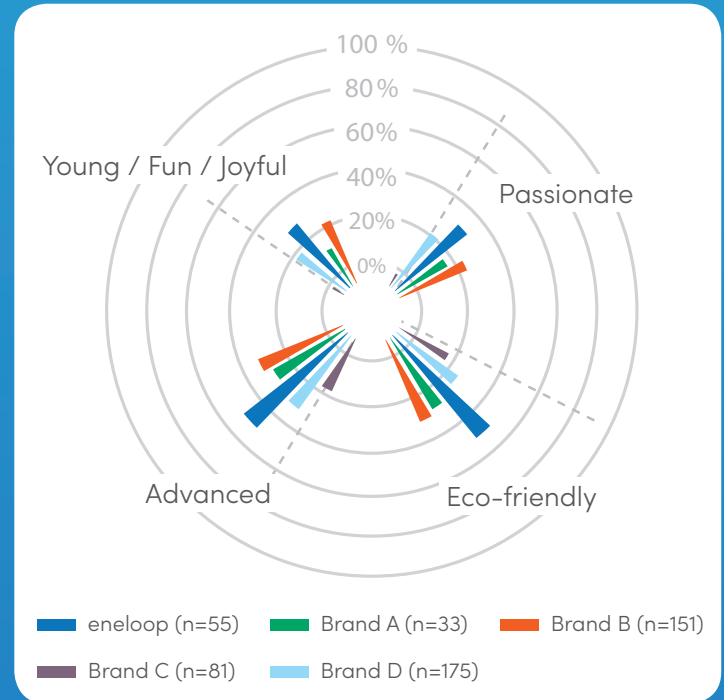
eneloop is  
Panasonic's answer.

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<sup>(1)</sup> Panasonic internal testing IEC61951-2 2011(7.5.1.3); 600 cycles according to IEC61951-2 2017(7.5.1.4)

# eneloop's brand image<sup>(2)</sup>

Research<sup>(2)</sup> has confirmed that eneloop is perceived to be the most eco-friendly, young, fun & joyful rechargeable brand compared to other rechargeable batteries, which have the same brand image values as alkaline batteries.



## eneloop worldwide

Sold in over **80** countries<sup>(3)</sup>

**480** million batteries shipped worldwide<sup>(3)</sup>

Registered trademark in over **60** countries<sup>(3)</sup>



<sup>(2)</sup> Source: Haystack rechargeable online survey July 2018. n:2007 in GE, PL, UK, IT and FR.  
<sup>(3)</sup> As of January 2019.

# For a sustainable lifestyle

## Use eneloop to save resources!

Each year, approximately 40 billion batteries are used worldwide. Replacing even a small percentage of these with eneloop will help save resources and conserve the environment.



*eneloop is the World's nature friendly battery.*

## Solar charged + Ready to Use

Pre-charged by solar energy and ready to use, eneloop is the World's nature friendly battery.



# [RE]CHARGE by eneloop

eneloop embodies Panasonic's vision and brand slogan: "A Better Life, a Better World".

Our planet is our most valuable asset, and if we want to preserve it, then we need to **RE**think how we consume our limited resources. Using eneloop is an important step towards the preservation of our world.

**RE**charging eneloop batteries is like **RE**charging our planet. It's a new start. For the better.

The "**RE**charge" activation campaign is about realizing the beauty of our planet, of our world.

And it's about contributing to its preservation. It's about contemplation and **RE**action.



**[RE]CHARGE**

**eneloop**  
Ready to use Rechargeable Battery™

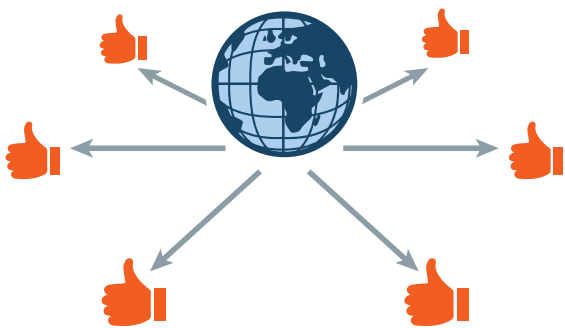
[www.panasonic-eneloop.eu](http://www.panasonic-eneloop.eu)  
[www.facebook.com/eneloop.Europe](https://www.facebook.com/eneloop.Europe)

Solar charged For Sustainable Lifestyle

# eneloop: top quality battery

World  
acclaimed  
quality

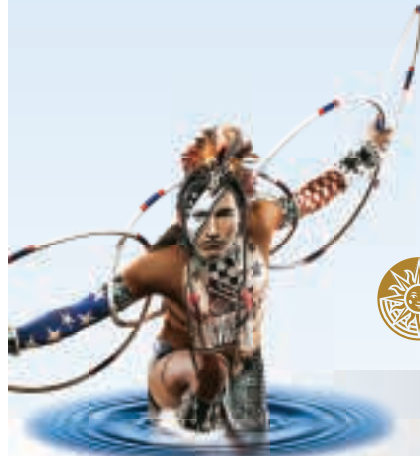
eneloop is shipped to over 80 countries and its Japanese inspired design and production are appreciated by consumers all over the world. Users feel a high level of satisfaction.



<sup>1</sup>Based on an internal survey of American, German, Chinese and Japanese users (2016-2017).

## Applauded by Cirque du Soleil<sup>®</sup>

*"We are using the eneloop batteries here at TOTEM and we are **more than satisfied**. eneloop batteries have a **fantastic capacity** and they also **retain their charge very well** where other brands would discharge considerably over time without use. We are going to continue to use eneloop for a long time."*



**Stephan Mendi**  
Sound Technician  
TOTEM - Cirque du Soleil



OFFICIAL PARTNER  
TOURING SHOWS

**CIRQUE DU SOLEIL**

Get your tickets for  
TOTEM in Europe on  
[cirquedusoleil.com/TOTEM](http://cirquedusoleil.com/TOTEM)



Check the full testimonial on our  
eneloop YouTube channel →

Photo: Matt Beard © 2017 Cirque du Soleil.  
Cirque du Soleil and Sun Logo are trademarks owned by Cirque du Soleil and used under license.



## Ecological solution

Every recharged battery will prevent a battery being disposed of, and because eneloop retains 70%<sup>(1)</sup> capacity after 10 years in storage, it will be ready to use whenever needed.

## Unbeatable cycle life

Each time an eneloop battery is recharged, it will save on the cost of replacement batteries, whilst at the same time reducing waste.

## No "memory effect"

Due to its higher starting voltage, there is no need to worry about the memory effect as the impact is much lower than other rechargeable batteries suffer.

## Low self discharge

Innovative technology in the production of eneloop ensures that the battery retains 70%<sup>(1)</sup> of capacity even after 10 years in storage.

## Extreme Temperature Performance

eneloop will maintain its performance at low temperatures (-20°C) far longer than alkaline batteries.

## Lasts much longer than Alkaline

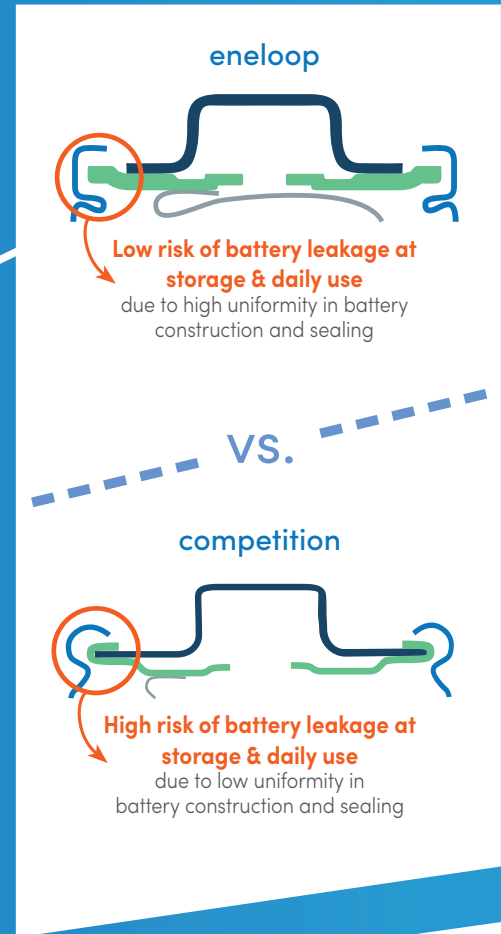
Due to its very stable voltage, it will last longer than alkaline batteries.



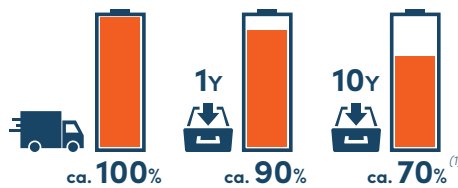
<sup>(1)</sup> Panasonic internal IEC 61951-2(7.3.2) testing – varies according to conditions of use.

# Unbeatable cycle life

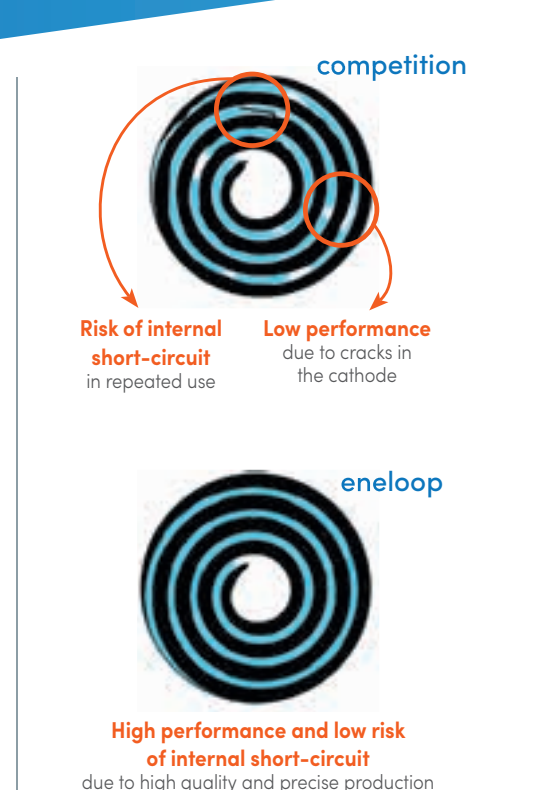
eneloop is developed using the latest production technologies and the finest grade materials. Thanks to the use of high grade materials, eneloop batteries have a low self-discharge and they are reusable, cycle by cycle with a stable voltage output. Next to that these innovations result in high conductivity, reliability and durability. By limiting the degradation of the materials, it has been possible to reduce performance decrease during repeated use and thus highly increase the number of times that eneloop batteries can be recharged.



# Low self-discharge

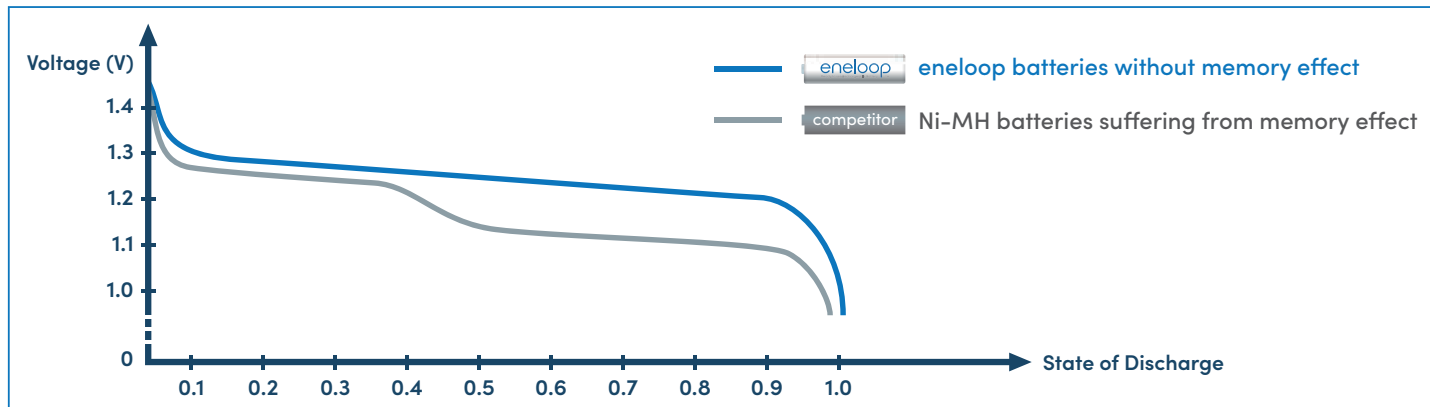


Highest production quality, with high precise production and cutting edge materials ensure an optimized function of the battery. This again realizes a high power and stable discharge performance combined with very low self-discharge.

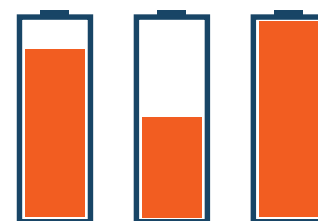


<sup>(1)</sup> Battery tested at 20°C ambient temperature self-discharge condition 0.2It (E.V.=1.0V).

# No “memory-effect”

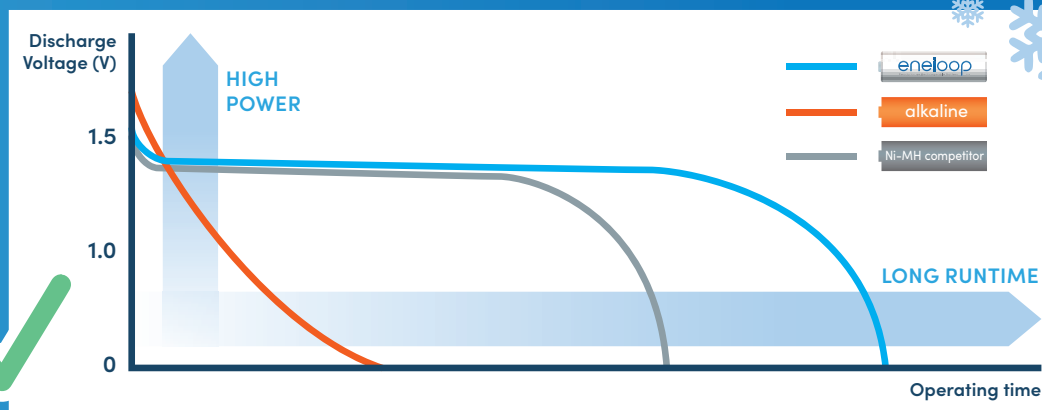


When a rechargeable battery that hasn't been fully discharged, is repeatedly topped up, it “remembers” that it's only been used for a short time. When used again, the voltage may quickly drop. This is called the memory effect. eneloop has a high voltage to begin with and so it maintains enough voltage even if this occurs. There's no need to worry about the memory effect.

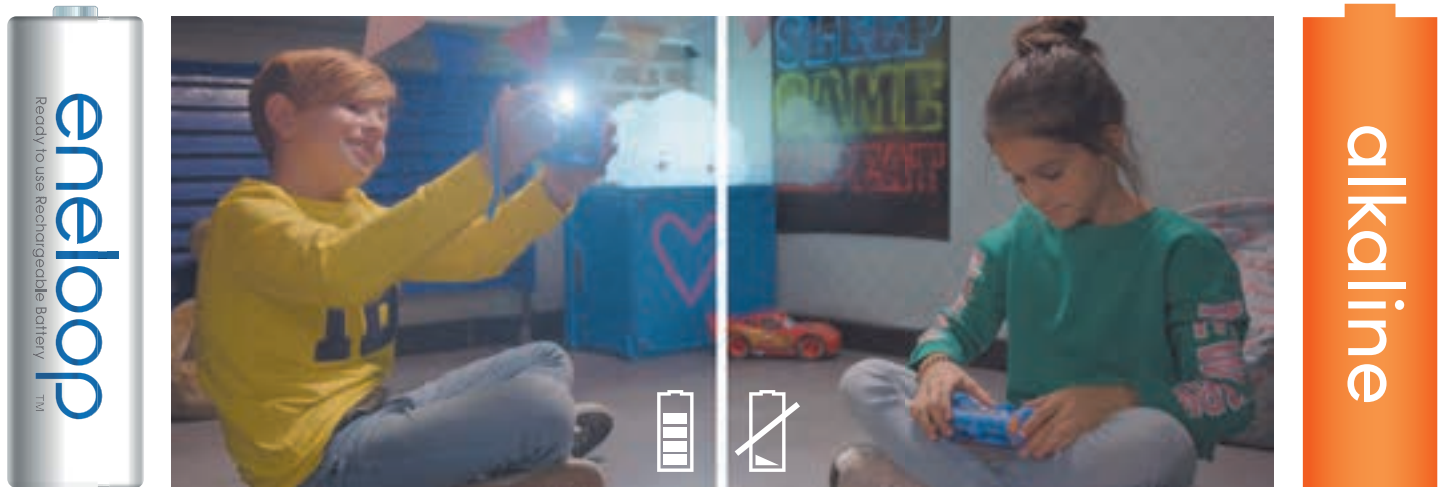


**Even when the batteries are not fully charged/discharged, eneloop can be charged again without quality loss.**

# Extreme temperature performance<sup>(2)</sup>



# eneloop lasts much longer than an alkaline battery



**A DEEPER RESERVE OF POWER** - A digital camera equipped with eneloop can take nearly 4.5 times as many shots as one equipped with standard alkaline dry cells <sup>(1)</sup>.

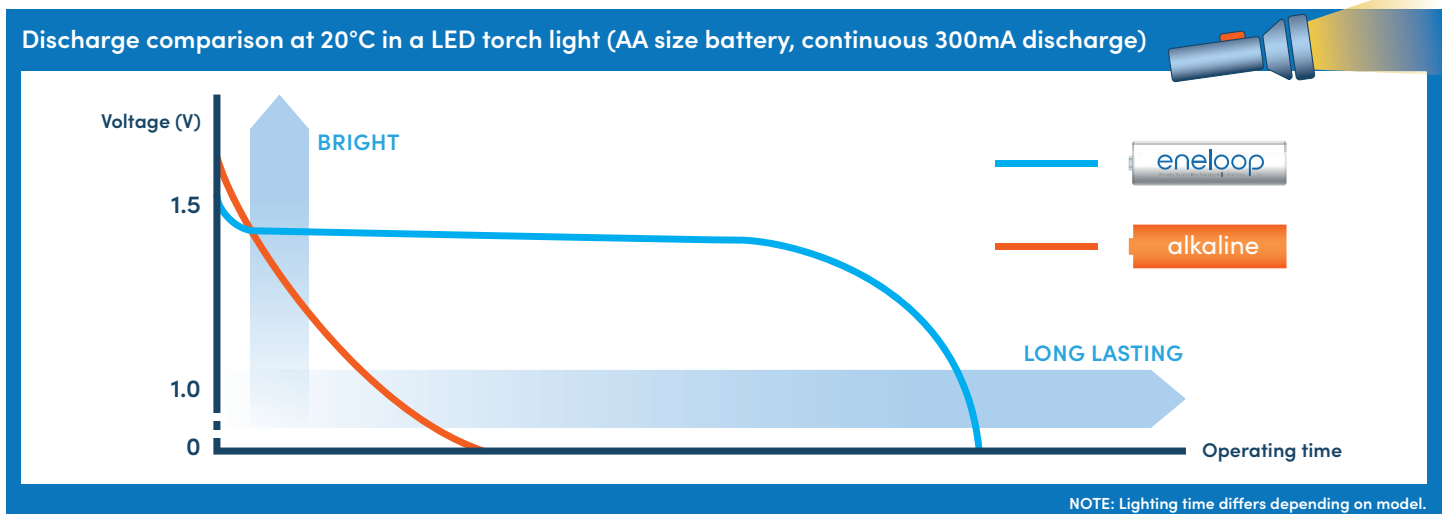
**eneloop**  
Ready to use Rechargeable Battery <sup>TM</sup>

**About 514 shots**  
(lasts about 4.5x longer)

**Average alkaline**

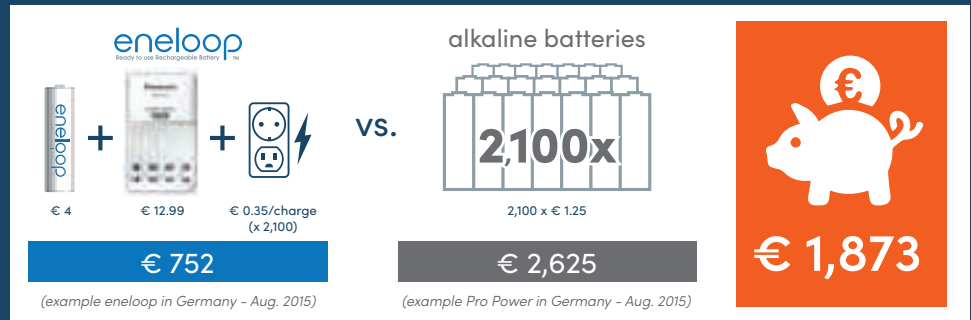
**About 117 shots**

Digital camera shots with eneloop vs. alkaline <sup>(1)</sup>



<sup>1</sup> Testing conditions at HR-3UTGA with SANYO DSC-S4 digital camera. One picture taken every 20 seconds. LCD on, and flash used every third shot. Results may vary depending on equipment used and other conditions. Comparison made with eneloop battery and comparable SANYO LR6 alkaline dry cell battery.

eneloop can be used up to 2,100 times<sup>(2)</sup> to save money



On average, families use around 70 batteries every year.<sup>3</sup> By switching to eneloop, a single charger makes it possible to charge a year's worth of batteries.

# eneloop lasts much longer than the competition

## HIGH POWER BATTERY

One of the main features of eneloop is the higher voltage level. Many applications switch off or show the low battery signal if the voltage falls below 1.1 Volt. A traditional Ni-MH battery will lose its voltage constantly and will quickly fall below this critical level. eneloop however will keep the voltage level above 1.1 Volt for longer, and will only fall under that limit just before becoming empty. That's one of the reasons why you can play longer with eneloop vs the competition.

**Competitor A**

**eneloop**

**Competitor B**

Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; 600 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.



# eneloop™

A solution for your  
different needs



eneloop™  
Ready to use Rechargeable Battery





# eneloop pro™

## Perfect choice for high drain devices

eneloop pro is the perfect choice for powering high current consuming devices such as photo flash lights, wireless keyboard & mouse, game controllers, radio controlled cars and a range of household devices. All of the appliances can realize extended performance when powered by eneloop pro batteries.

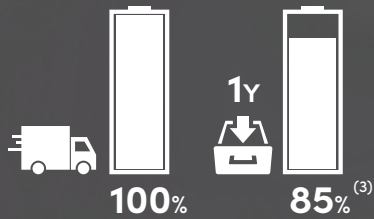


eneloop  
Ready to use Rechargeable Battery™

Solar charged + Ready to Use



Low self-discharge when stored



Usable in low temperatures



# eneloop pro™

 **500x<sup>(2)</sup>**  
Charge cycles

**AA ▶ 2,500 mAh<sup>(1)</sup>**  
Minimum capacity

**AAA ▶ 930 mAh<sup>(1)</sup>**  
Minimum capacity

After 1 year  
capacity  
remains  
**85%<sup>(1)</sup>**  

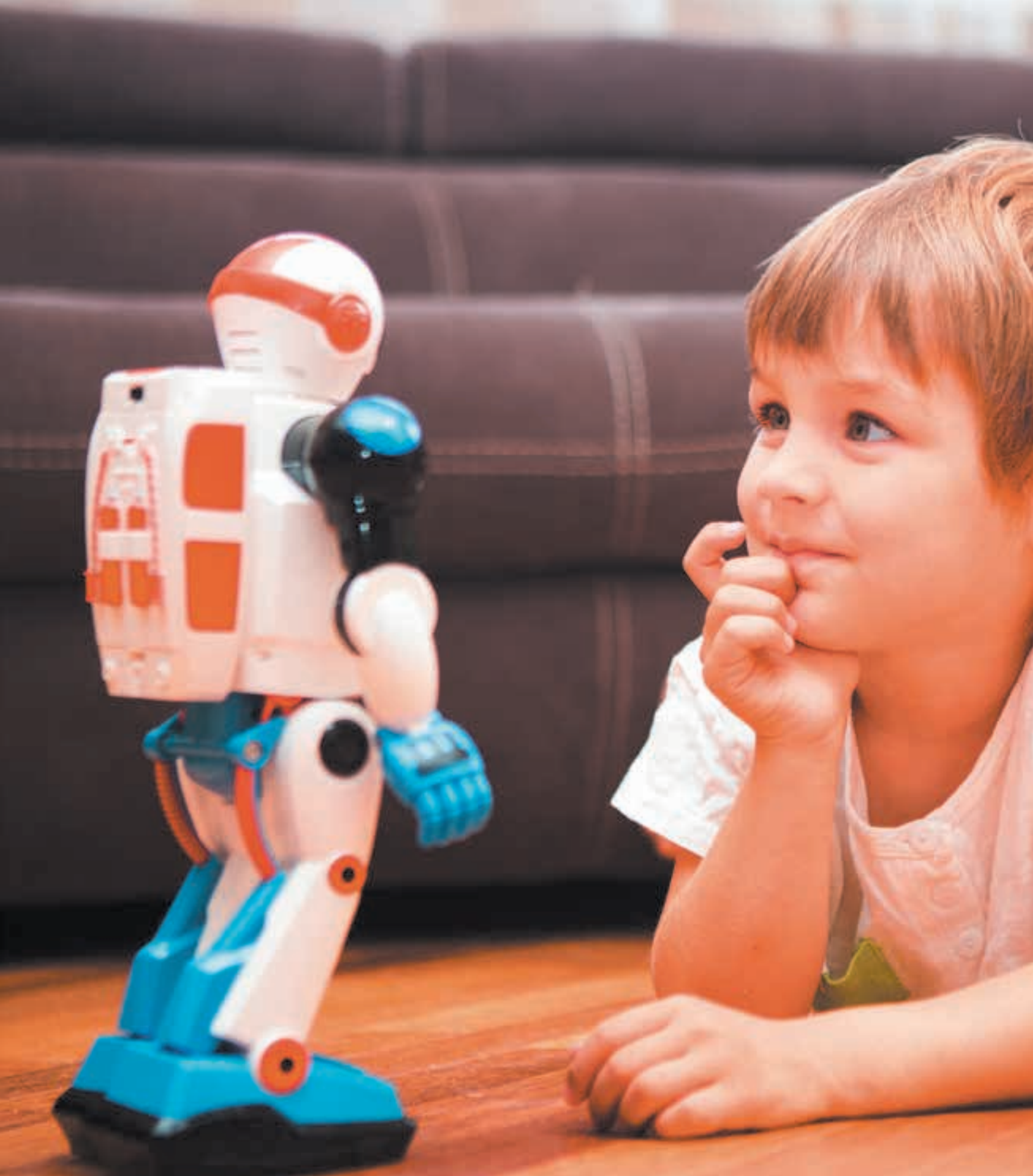



Size	Min. Capacity	Global Code	CSU EAN	Batteries/ CSU	Blisters/ Carton	Cartons/ Outer Carton
AA	2,500 mAh	BK-3HCDE/2BE	5410853057178	2	8	12
AA	2,500 mAh	BK-3HCDE/4BE	5410853052579	4	10	12
AA	2,500 mAh	BK-3HCDEC4BE	5410853060161	4 + case	10	4
AAA	930 mAh	BK-4HCDE/2BE	5410853057185	2	10	12
AAA	930 mAh	BK-4HCDE/4BE	5410853052609	4	12	12
AAA	930 mAh	BK-4HCDEC4BE	5410853060178	4 + case	10	4

<sup>(1)</sup> Panasonic internal IEC 61951-2(7.3.2) testing – varies according to conditions of use.

<sup>(2)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; 150 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

<sup>(3)</sup> Battery tested at 20°C ambient temperature self-discharge condition 0.2It (E.V.=1.0V)



# Long-life, pre-charged, energy and money saving

eneloop is a long-life, pre-charged, energy and money saving,  
recyclable rechargeable battery which can be  
charged and discharged up to 2,100 times<sup>(1)</sup>.

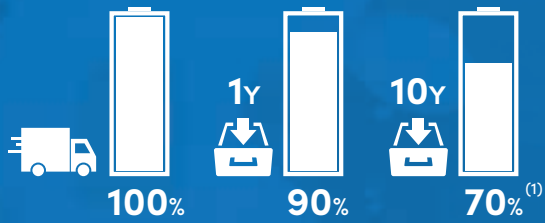


<sup>(1)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; 600 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

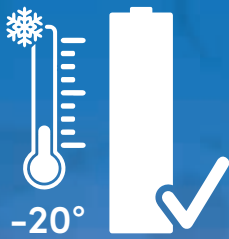
## Solar charged + Ready to Use



## Low self-discharge when stored



## Usable in low temperatures


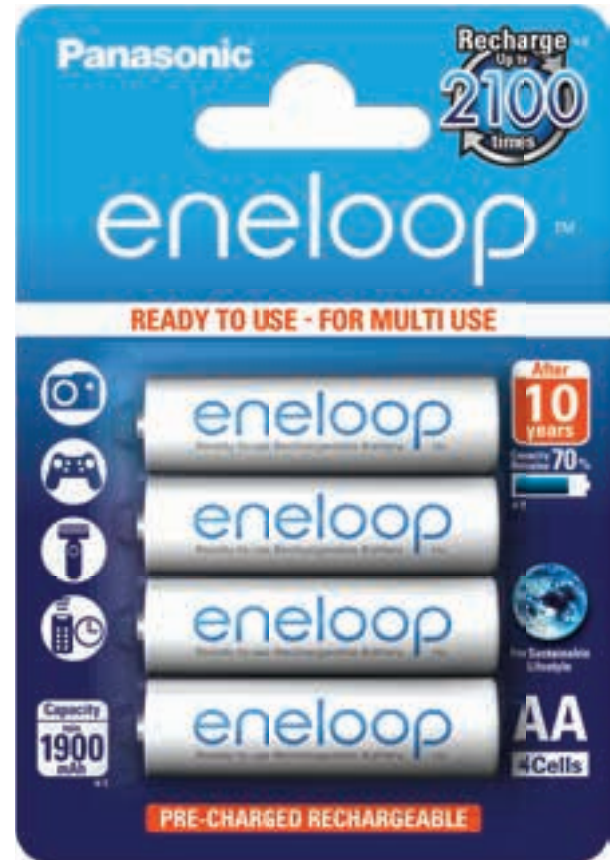


 **2,100x<sup>(2)</sup>**  
Charge cycles

**AA ▶ 1,900 mAh<sup>(1)</sup>**  
Minimum capacity

**AAA ▶ 750 mAh<sup>(1)</sup>**  
Minimum capacity

After 10 years  
capacity  
remains  
**70%<sup>(1)</sup>**

Size	Min. Capacity	Global Code	CSU EAN	Batteries/ CSU	Blisters/ Carton	Cartons/ Outer Carton
AA	1,900 mAh	BK-3MCCE/2BE	5410853052623	2	8	12
AA	1,900 mAh	BK-3MCCE/4BE	5410853052630	4	10	12
AA	1,900 mAh	BK-3MCCE/8BE	5410853052647	8	10	4
AA	1,900 mAh	BK-3MCCEC4BE	5410853052654	4 + case	10	4
AAA	750 mAh	BK-4MCCE/2BE	5410853052678	2	10	12
AAA	750 mAh	BK-4MCCE/4BE	5410853052685	4	12	12
AAA	750 mAh	BK-4MCCE/8BE	5410853052692	8	10	4
AAA	750 mAh	BK-4MCCEC4BE	5410853052708	4 + case	10	4
mix	1,900/750 mAh	BK-KJMCCE44E	5410853052715	4 AA + 4 AAA	10	4

<sup>(1)</sup> Panasonic internal IEC 61951-2(7.3.2) testing – varies according to conditions of use.

<sup>(2)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; 600 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

<sup>(3)</sup> Battery tested at 20°C ambient temperature self-discharge condition 0.2It (E.V.=1.0V)





## Ideal for devices requiring low-to-medium power

eneloop lite batteries are ideal for devices requiring low-to-medium power, such as DECT phones and remote controls. They can be recharged up to 3,000 times<sup>(1)</sup> which makes it even more economically and environment-friendly.

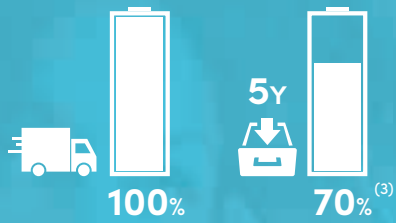


<sup>(1)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; 1,000 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

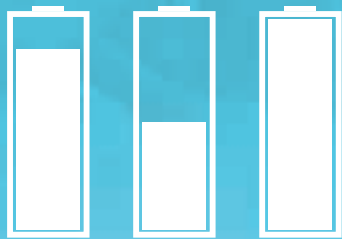
Solar charged + Ready to Use




Low self-discharge when stored




No "memory-effect" <sup>(4)</sup>



 **3,000x<sup>(2)</sup>**  
Charge cycles

**AA ▶ 950 mAh<sup>(1)</sup>**  
Minimum capacity

**AAA ▶ 550 mAh<sup>(1)</sup>**  
Minimum capacity

After 5 years  
capacity  
remains  
**70%<sup>(1)</sup>**  









Size	Min. Capacity	Global Code	CSU EAN	Batteries/ CSU	Blister/ Carton	Cartons/ Outer Carton
AA	950 mAh	BK-3LCCE/2BE	5410853052739	2	8	12
AAA	550 mAh	BK-4LCCE/2BE	5410853052753	2	10	12
AAA	550 mAh	BK-4LCCE/4BE	5410853052760	4	12	12

<sup>(1)</sup> Panasonic internal IEC 61951-2(7.3.2) testing - varies according to conditions of use.

<sup>(2)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; 1,000 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

<sup>(3)</sup> Battery tested at 20°C ambient temperature self-discharge condition 0.2h (E.V.=1.0V). <sup>(4)</sup> More info about "Memory Effect" on p. 19

# Comparison chart

	 <b>eneloop pro</b> <b>BK-3HCDE</b>	 <b>eneloop</b> <b>BK-3MCCE</b>	 <b>eneloop lite</b> <b>BK-3LCCE</b>
<b>Capacity (AA)<sup>(1)</sup></b>	min. 2,500 mAh up to 2,550 mAh	min. 1,900 mAh up to 2,000 mAh	min. 950 mAh up to 1,000 mAh
<b>Capacity (AAA)<sup>(1)</sup></b>	min. 930 mAh up to 950 mAh	min. 750 mAh up to 800 mAh	min. 550 mAh up to 600 mAh
<b>Charging cycles<sup>(2)</sup></b>	up to 500 times	up to 2100 times	up to 3,000 times
<b>Type</b>	High capacity For high drain devices	Low self-discharge For multi-use	Basic rechargeable For daily use
<b>Ideal for</b>	DSLR flash, Radio Control Cars, Wireless Devices 	Digital Cameras, Beauty & Health, Games & Toys, Torch lights, DECT Phones 	DECT Phones, Remote Controls, Daily Use 

Battery runtime beginning from charged state. It varies depending on conditions of use, model used, ambient temperature & conditions of equipment.

<sup>(1)</sup> Panasonic internal IEC61951-2(7.3.2) testing – varies according to conditions of use

<sup>(2)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; eneloop pro: 150 times, eneloop: 600 times, eneloop lite: 1,000 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

# Performance chart

	 eneloop pro	 eneloop	 eneloop lite	 alkaline battery
 DSLR flash	± 1.8 hours	± 1.5 hours	± 0.7 hours	± 1 hours
 Radio Control Car	± 3 hours	± 2 hours	± 1 hour	± 1 hours
 Wireless Devices	± 80 hours	± 60 hours	± 30 hours	± 25 hours
 Toys	± 8 hours	± 6 hours	± 3 hours	± 8 hours
 Digital Cameras	± 3 hours	± 2 hours	± 1 hour	± 0.5 hours
 Beauty & Health	± 3.3 hours	± 3 hours	± 1.5 hours	± 1.5 hours
 Torch lights	± 6 hours	± 5 hours	± 2.5 hours	± 4 hours
 Games & Toys	± 25 hours	± 20 hours	± 10 hours	± 25 hours
 Daily Use	± 2 years	± 2 years	± 1 year	± 2 years
 DECT Phones	± 70 hours (AAA in standby mode) <sup>(3)</sup>	± 60 hours (AAA in standby mode) <sup>(3)</sup>	± 40 hours (AAA in standby mode) <sup>(3)</sup>	—

Usable temperature ranges: -5°C to 50°C for discharging (in device), 0°C to 40°C for charging, -20°C to 30°C for storage. Usage outside of these temperature ranges may adversely affect battery performance and/or lifespan. • <sup>(3)</sup> Expected power consumption: 12.5mA

Suitable for all cordless phones



BEST CYCLE LIFE



Recharge  
Up to  
**3000**  
times

Recharge  
Up to  
**2100**  
times



Lasts up to 3 times longer <sup>(1)</sup>



# Cordless phone solution

**Best match**  
for your  
**cordless phone**



Size	Min. Capacity	Global Code	CSU EAN	Batteries/ CSU	Blisters/ Carton	Cartons/ Outer Carton
AAA	750 mAh	BK-4MCCE/3DE	5410853058779	3	10	12
AAA	750 mAh	BK-4MCCE/2DE	5410853058786	2	10	12
AAA	550 mAh	BK-4LCCE/3DE	5410853058793	3	10	12
AAA	550 mAh	BK-4LCCE/2DE	5410853058809	2	10	12

<sup>(1)</sup> vs. competition based on Panasonic's internal charge & discharge tests.  
<sup>(2)</sup> Panasonic internal IEC 61951-2 2011(7.5.1.3) testing; eneloop: 600 times, eneloop lite: 1,000 times according to Panasonic internal IEC 61951-2 2017(7.5.1.4) testing.

Premium packaging for durable use



Ideal to store unused batteries



Recycled PET-packaging





# New storage case

## For durable use

The eneloop storage case is made from eco friendly recyclable PET packaging and its stylish appearance makes it an ideal travel companion or a perfect solution to store unused batteries at home.



Only available  
online!

Check out our movies on the  
eneloop YouTube channel.

eneloop



eneloop pro



Size	Min. Capacity	Global Code	CSU EAN	Packs/ Carton	Cartons/ Pallet	Layers/ Pallet
AA	2,500 mAh	BK-3HCDE/4LE	5410853060611	10	560	10
AAA	930 mAh	BK-4HCDE/4LE	5410853060628	10	560	10
AA	1,900 mAh	BK-3MCCE/4LE	5410853060574	10	560	10
AAA	750 mAh	BK-4MCCE/4LE	5410853060581	10	560	10
AA	1,900 mAh	BK-3MCCE/8LE	5410853060598	10	280	5
AAA	750 mAh	BK-4MCCE/8LE	5410853060604	10	490	7

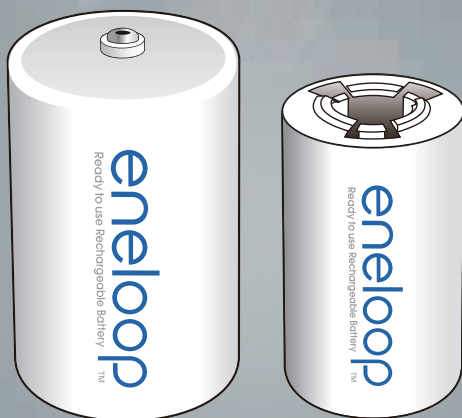
Certain appliances or devices  
require battery sizes other  
than AA or AAA

(large torches, portable outdoor radios,  
musical instruments, toys)

Transfer AA batteries into  
C or D size batteries

**AA ▸ C    AA ▸ D**

eneloop quality in C & D size

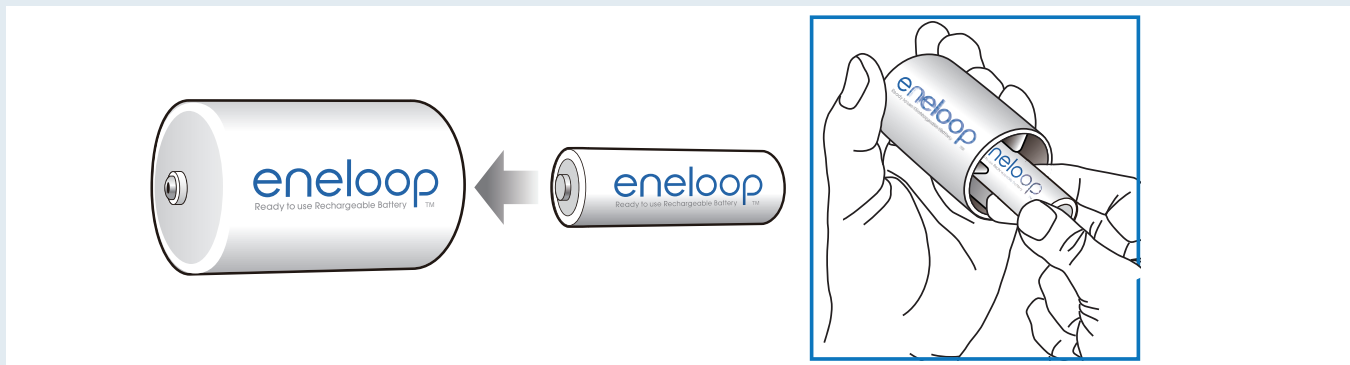


## Transform an AA into a C- or D-battery

Even though 85%<sup>(1)</sup> of all disposable batteries sold are either AA or AAA, there are still certain applications, which require other battery sizes. Two common other sizes sold are C and D. Both sizes are typically used in large torches or portable radios. To power these appliances we can offer a simple adapter, which helps to transform an AA size eneloop into a C or D size battery.

### HOW IT WORKS

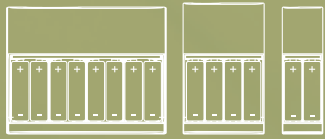
Simply insert the AA eneloop battery into the C- or D-size adaptor and it can be used in your equipment. The adaptors will fit the mechanical dimensions of the eneloop battery (length and diameter) and obviously not its electrical characteristics. The voltage and the capacity remain unchanged to the eneloop AA specification.



Name	Size	Global Code	CSU EAN	Spacers/ Blister	Blisters/ Carton	Cartons/ Outer Carton
spacer	D	BQ-BS1E/2E	5410853052838	2	6	4
spacer	C	BQ-BS2E/2E	5410853052845	2	6	4

<sup>(1)</sup> Based on Nielsen data 2018 of alkaline and zinc batteries sales.

Wide charger portfolio to cater for different consumer demands



Worldwide voltage  
(100-240V)



All chargers have a built in  
safety timer cut-off

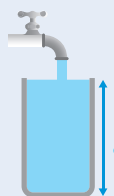


eneloop  
Ready to use Rechargeable Battery

## The ideal charger for your eneloop Ready to Use rechargeable batteries

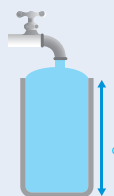
eneloop offers an extensive range of chargers to partner your eneloop batteries. From entry level chargers to chargers developed for professional users, we offer chargers for everyone's needs.

### Charging techniques explained



#### Smart Charge

detects voltage and stops charging just before overflow, to extend the battery life.



#### Delta V (- $\Delta V$ )

detects the voltage and stops charging just after overflow.



#### Timer Cut

recharges for a preset time, even if the battery is full.

# Chargers

## PROFESSIONAL CHARGER



Charging Time  
**2hr.**  
2 x AA

### Professional charger - BQ-CC65

- ▶ Rapid Charge – 2x AA: ± 2 hours / 4x AA: ± 4 hours
- ▶ Individual battery charge control (Smart Charge<sup>(1)</sup>)
  - ▶ Can charge 1, 2, 3 or 4 batteries at the same time
- ▶ Possibility to charge your phone via integrated USB port
  - ▶ Can be used all over the world (100-240V / 50-60Hz)
    - ▶ Connected via AC cable

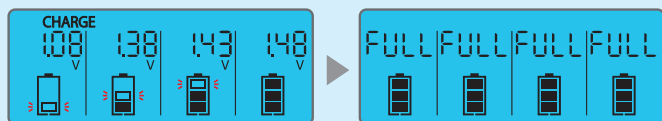
More information:



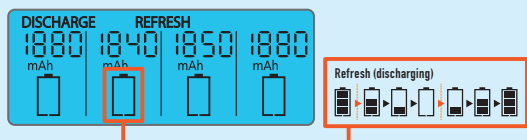
#### LCD Display

- ▶ LCD Status shows the remaining voltage/operation time
- ▶ Eco Counter (number of batteries charged / saved from entering landfill)
- ▶ End of Life advanced warnings
- ▶ Abnormality Detection for non rechargeable batteries
- ▶ Maintenance Mode information
- ▶ Discharge Function including battery condition

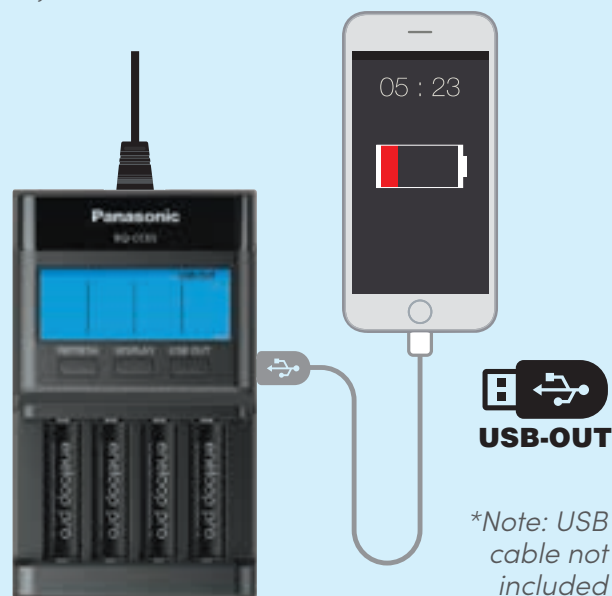
#### Charging



#### Refresh (Discharging)



#### Charge mobiles and tablets via the USB output

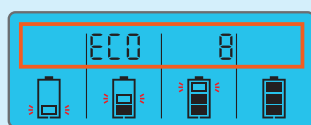


\*Note: USB cable not included

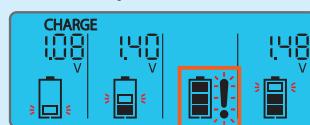
#### Abnormal



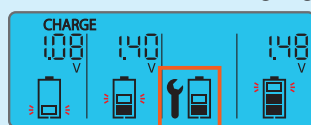
#### Eco Counter



#### End of Cycle Life is near



#### Maintenance Charging



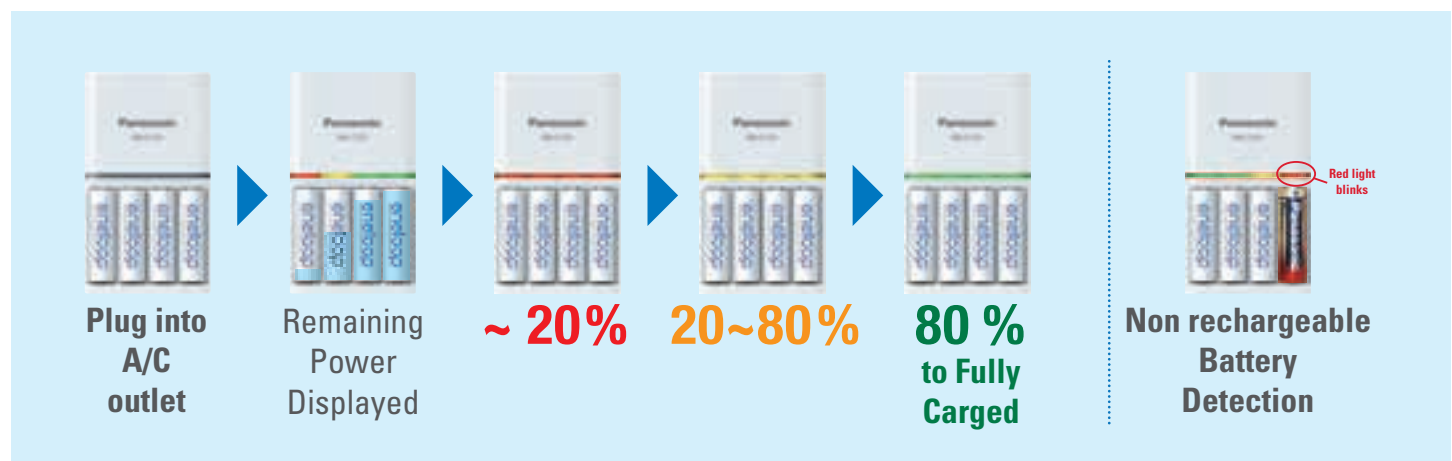
<sup>(1)</sup> This charger has a "Smart Charge" function which checks the voltage and temperature of a battery automatically. Thanks to the "Smart Charge" function, it saves charging time and loss of energy and money.

# Chargers

## STANDARD 4-SLOT CHARGERS

### Smart & Quick charger - BQ-CC55

- ▶ Rapid Charge – 2x AA: ± 1.5 hours / 4x AA: ± 3 hours
- ▶ Can charge 1, 2, 3 or 4 batteries at the same time
- ▶ Individual battery charge control (Smart Charge<sup>(1)</sup>)
- ▶ 4 LED's indicate charging status  
(ON = charging; OFF = fully charged)
- ▶ Can be used all over the world (100-240V / 50-60Hz)
- ▶ Fixed plug
- ▶ Available in black or white



### Advanced charger - BQ-CC17

- ▶ Charging time – AA (2,000mAh): ± 7 hours / AAA (800mAh): ± 6 hours
  - ▶ Can charge 1, 2, 3 or 4 batteries at the same time
    - ▶ Individual battery charge control (Delta V<sup>(2)</sup>)
- ▶ 4 LED's indicate charging status (ON = charging; OFF = fully charged)
  - ▶ Can be used all over the world (100-240V / 50-60Hz)
    - ▶ Fixed plug

<sup>(2)</sup> Explanation charging controls: see p. 45

# Chargers

## FREQUENT CHARGING / OFFICE CHARGER



### 8 cells charger - BQ-CC63

- ▶ Charging time – AA (2,000mAh): ± 5 hours / AAA (800mAh): ± 3 hours
  - ▶ Can charge 1, 2, 3, 4, 5, 6, 7 or 8 batteries at the same time
    - ▶ Individual battery charge control (Delta V<sup>(1)</sup>)
- ▶ 8 LED's indicate charging status (ON = charging; OFF = fully charged)
  - ▶ Can be used all over the world (100–240V / 50–60Hz)
  - ▶ Connected via AC cable (included)



Individual Charge



will not charge

Non rechargeable Battery Detection

## ENTRY CHARGERS



### Compact charger - BQ-CC50

- ▶ Charging time – AA (2,000mAh): ± 10 hours / AAA (800mAh): ± 10 hours
  - ▶ Can charge 1 or 2 batteries at the same time
    - ▶ Charging control: individual Timer Cut<sup>(1)</sup> (13 hours)
- ▶ 2 LED's indicate charging status (ON = charging; OFF = fully charged – Timer Cut<sup>(1)</sup>)
  - ▶ Can be used all over the world (100–240V / 50–60Hz)
  - ▶ Fixed plug

<sup>(1)</sup> Explanation charging controls: see p. 45



# Chargers

## Basic charger - BQ-CC51

- ▶ Charging time – AA (2,000mAh): ± 10 hours / AAA (800mAh): ± 10 hours
- ▶ Can charge 2 or 4 batteries at the same time
- ▶ Charging control: Timer Cut<sup>(1)</sup> (13 hours)
- ▶ 2 LED's indicate charging status per battery pair  
(ON = charging; OFF = fully charged - Timer Cut<sup>(1)</sup>)
- ▶ Can be used all over the world (100-240V / 50-60Hz)
- ▶ Fixed plug



## ENTRY USB-IN CHARGERS



## BQ-CC80 - compact USB-in charger

- ▶ Charging time – AA (2,000mAh): ± 10 hours  
/ AAA (800mAh): ± 10 hours
- ▶ Can charge 2 batteries at the same time
- ▶ Charging control: Timer Cut<sup>(1)</sup> (10 hours)
  - ▶ 1 LED indicates charging status  
(ON = charging; OFF = fully charged)
  - ▶ USB cable included

## BQ-CC61 - USB-in charger

- ▶ Charging time – AA (2,000mAh): ± 10 hours / AAA (800mAh): ± 10 hours
- ▶ Can charge 2 or 4 batteries at the same time
- ▶ Charging control: Timer Cut<sup>(1)</sup> (10 hours)
- ▶ 2 LED's indicate charging status per battery pair  
(ON = charging; OFF = fully charged - Timer Cut<sup>(1)</sup>)
- ▶ USB cable included



# Chargers



CSU EAN	Global Code	Batteries included	Battery Size	Plug	Charger dimensions	Charger net weight	Chargers/ Carton
5410853060017	BQ-CC65E	—	—	EU	144 x 86 x 40 mm	225 g	4
5410853060024	BQ-CC65U	—	—	UK	144 x 86 x 40 mm	225 g	4
5410853057628	BQ-CC55E	—	—	EU	121 x 68 x 65.5 mm	124 g	8
5410853057635	K-KJ55HCD40E	4x eneloop pro	AA	EU	121 x 68 x 65.5 mm	124 g	8
5410853057673	K-KJ55HCD40U	4x eneloop pro	AA	UK	121 x 68 x 62 mm	131 g	8
5410853057642	K-KJ55MCC40E	4x eneloop	AA	EU	121 x 68 x 65.5 mm	124 g	8
5410853057666	K-KJ55MCC40U	4x eneloop	AA	UK	121 x 68 x 62 mm	131 g	8
5410853052296	K-KJ17MCC40E	4x eneloop	AA	EU	105 x 65 x 65 mm	107 g	8
5410853059998	BQ-CC63E	—	—	EU	119 x 147 x 28 mm	236 g	4
5410853060000	BQ-CC63U	—	—	UK	119 x 147 x 28 mm	236 g	4
5410853056676	BQ-CC51E	—	—	EU	108 x 66 x 65.1 mm	100 g	8
5410853056683	K-KJ51MCC40E	4x eneloop	AA	EU	108 x 66 x 65.1 mm	100 g	8
5410853056690	K-KJ51MCC04E	4x eneloop	AAA	EU	108 x 66 x 65.1 mm	100 g	8
5410853057680	K-KJ51MCC40U	4x eneloop	AA	UK	108 x 66 x 62 mm	110 g	8
5410853057659	K-KJ50MCC20E	2x eneloop	AA	EU	121 x 50 x 66.2 mm	86 g	8
5410853061649	BQ-CC80USB	—	—	USB	90 x 40 x 25 mm	51.5 g	8
5410853061427	K-KJ80MCC20USB	2x eneloop	AA	USB	90 x 40 x 25 mm	51.5 g	8
5410853059882	BQ-CC61USB	—	—	USB	85 x 66 x 27 mm	78 g	4
5410853060406	K-KJ61MCC40USB	4x eneloop	AA	USB	85 x 66 x 27 mm	78 g	4

# Chargers



# Charger overview

## PROFESSIONAL



BQ-CC65

**Professional charger**

## STANDARD CHARGERS



BQ-CC55  
K-KJ55MCC

**Smart & Quick charger**



BQ-CC17  
K-KJ17MCC

**Advanced charger**

## OFFICE CHARGER



BQ-CC63

**8 cells charger**

Battery Type		Ni-MH		Ni-MH		Ni-MH	Ni-MH
Charging Time		1 / 2 pcs.	3 / 4 pcs.	1 / 2 pcs.	3 / 4 pcs.	1 - 4 pcs.	1 - 8 pcs.
	AA	2 hrs.	4 hrs.	2 hrs.	4 hrs.	9 hrs.	6 hrs.
	AAA	2 hrs.	4 hrs.	2 hrs.	4 hrs.	7 hrs.	3.5 hrs.
	AA	1.5 hrs.	3 hrs.	1.5 hrs.	3 hrs.	7 hrs.	5 hrs.
	AAA	1.5 hrs.	3 hrs.	1.5 hrs.	3 hrs.	6 hrs.	3 hrs.
	AA	0.75 hrs.	1.5 hrs.	0.75 hrs.	1.5 hrs.	3.5 hrs.	2.5 hrs.
	AAA	1.25 hrs.	2.5 hrs.	1.25 hrs.	2.5 hrs.	5 hrs.	2.5 hrs.
Specifications							
<b>Input</b>	AC100-240V 50-60Hz		AC100-240V 50-60Hz		AC100-240V 50-60Hz		AC100-240V 50-60Hz
<b>Charging output</b>	DC 5V 1A / USB-A 1-slot DC 1.5V AA 750mA x 4 DC 1.5V AAA 275mA x 4		DC 1.5V AA 550mA x 4 AAA 275mA x 4		DC 1.5V AA 300mA x 4 AAA 150mA x 4		DC 1.5V AA 500mA x 8 AAA 300mA x 8
<b>Charging control</b>	Smart Charge <sup>(1)</sup>		Smart charge <sup>(1)</sup>		Delta V <sup>(1)</sup>		Delta V <sup>(1)</sup>
<b>Indicator</b>	LCD display : Battery capacity - Life check Discharge mode		LED x 4 Charging: ON, Fully charged: OFF		LED x 4 Charging: ON, Fully charged: OFF		LED x 8 Charging: ON, Fully charged: OFF
<b>Charger battery</b>	AA x 1 - 4 cells AAA x 1 - 4 cells		AA x 1 - 4 cells AAA x 1 - 4 cells		AA x 1 - 4 cells AAA x 1 - 4 cells		AA x 1 - 8 cells AAA x 1 - 8 cells
<b>Dimensions (approx.)</b>	L x W x D: 144 x 86 x 40 mm		L x W x D: 121 x 68 x 65.5 mm		L x W x D: 105 x 65 x 65 mm		L x W x D: 119 x 147 x 28 mm
<b>Weight (approx.)</b>	225g (without AC cord)		EU: 124g / UK: 131g		107g		236g (without AC cord)

<sup>(1)</sup> Explanation charging controls: see p. 45



ENTRY CHARGERS



BQ-CC51

**Basic charger**

Ni-MH

2 / 4 pcs.

12 hrs.

12 hrs.

10 hrs.

10 hrs.

5 hrs.

8 hrs.



BQ-CC50  
K-KJ50MCC

**Compact charger**

Ni-MH

1 - 2 pcs.

12 hrs.

12 hrs.

10 hrs.

10 hrs.

5 hrs.

8 hrs.



BQ-CC61  
K-KJ61MCC

**USB-in charger**

Ni-MH

2 / 4 pcs.

not fully charged

not fully charged

10 hrs.

10 hrs.

5 hrs.

8 hrs.



BQ-CC80  
K-KJ80MCC

**Compact USB-in charger**

Ni-MH

2 pcs.

not fully charged

not fully charged

10 hrs.

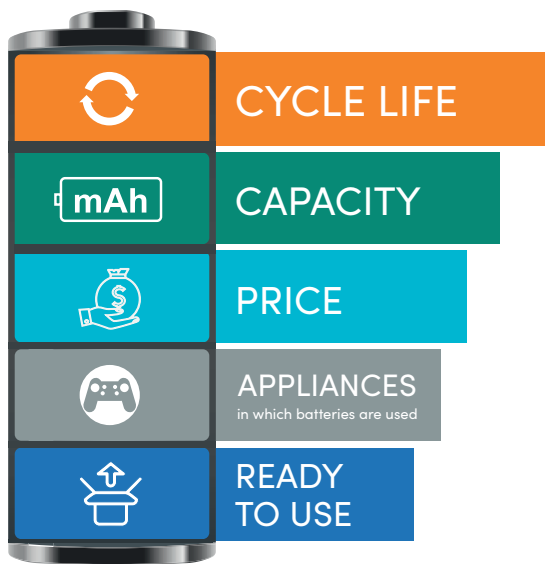
10 hrs.

5 hrs.

8 hrs.

				Battery Type
				Charging Time
				AA
				AAA eneloop pro
				AA
				AAA eneloop
				AA
				AAA eneloop lite
				Input
AC100-240V 50-60Hz	AC100-240V 50-60Hz	DC 5V	DC 5V	
				Charging output
DC 3V AA 250mA x 2 AAA 120mA x 2	DC 1.5V AA 250mA x 2 AAA 120mA x 2	DC 3V AA 200mA x 2 AAA 80mA x 2	DC 3V AA 200mA x 1 AAA 80mA x 1	
				Charging control
Timer cut <sup>(1)</sup> (13 hours)	Timer cut <sup>(1)</sup> (13 hours) individual	Timer cut <sup>(1)</sup> (10 hours)	Timer cut <sup>(1)</sup> (10 hours)	
				Indicator
LED x 2 Charging: ON, Fully charged: OFF	LED x 2 Charging: ON, Fully charged: OFF	LED x 2 Charging: ON, Fully charged: OFF	LED Charging: ON, Fully charged: OFF	
				Charger battery
AA x 2 or 4 cells AAA x 2 or 4 cells	AA x 1 - 2 cells AAA x 1 - 2 cells	AA x 2 or 4 cells AAA x 2 or 4 cells	AA x 2 cells AAA x 2 cells	
				Dimensions (approx.)
L x W x D: 108 x 66 x 65.1 mm	L x W x D: 121 x 50 x 66.2 mm	L x W x D: 85 x 66 x 27 mm	L x W x D: 90 x 40 x 25 mm	
				Weight (approx.)
EU: 100g / UK: 110g	86g	78g (without USB cord)	51.5g (without USB cord)	

# Shopper insights



Main reasons to buy rechargeable batteries

Cycle life is one of the most important motivating factors for buying rechargeable batteries.

**38%**   
buy in  
**RETAIL FOOD**

**32%**   
buy in  
**OTHER CHANNELS**



**12%**   
buy in  
**RETAIL NON FOOD**

**10%**   
buy in  
**E-COMMERCE**

**8%**   
buy in  
**DISCOUNT**



Search info  
**BEFORE**  
purchasing



**31%** of the shoppers  
in electronic shops



**33%** of the online  
shoppers

vs. **23%** in average



Search info  
**WHILE**  
purchasing



**35%** of the shoppers  
in electronic shops

- asking staff
- online (via smartphone)
- on pack



**39%** of the online  
shoppers

- ratings & reviews
- product page on webshop
- other webshops

vs. **25%** in average

eneloop  
channel shoppers  
(electro & online) need  
**a LOT OF  
INFORMATION**  
before & during  
purchase

Even when purchases are done **OFFLINE** (electronic shop),  
people search **ONLINE** for info on the product  
(both before and while purchasing)

**ROPO: Research Online Purchase Offline**

**WHAT INFO  
ARE THEY  
SEARCHING FOR?**



1. PRICE
2. PERFORMANCE
3. BATTERY TECHNOLOGY

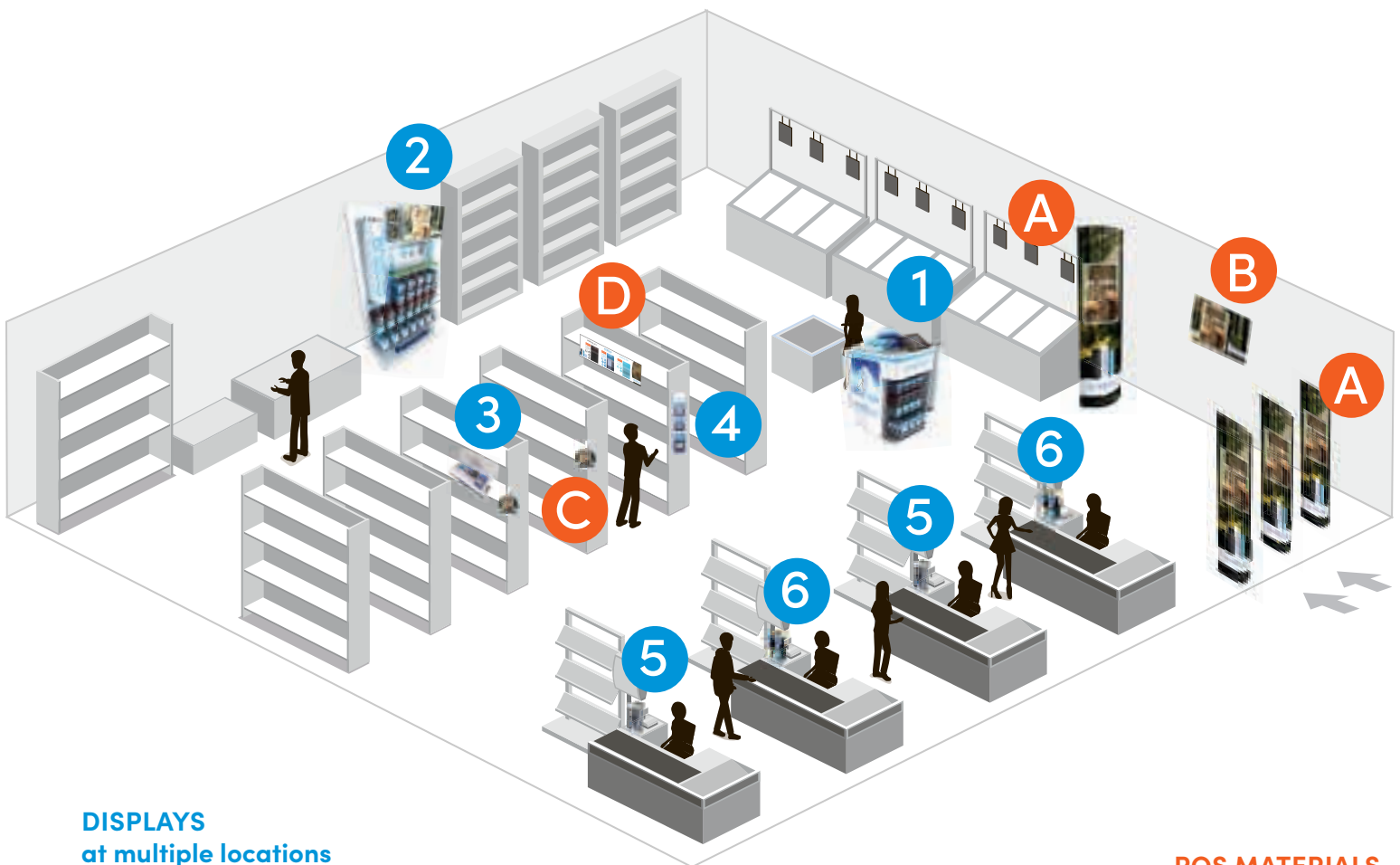


1. PERFORMANCE
2. BATTERY TECHNOLOGY
3. PRICE

Source: Haystack rechargeable online survey July 2018 n:2007 in Germany, Poland, UK, Italy & France.

# Multiple locations in store

To increase visibility and rotation, locating batteries on multiple locations in stores is very important: at the battery shelf, near the toy/electro shelf, in displays and at the checkout. Multilocation is the key to a successful battery category and can lead to a significant increase in sales.



## DISPLAYS at multiple locations

- ① enloop Gold display
- ② enloop Silver display
- ③ enloop Bronze display (in shelf)
- ④ enloop 3H magnetic display
- ⑤ enloop battery shaped counter display
- ⑥ enloop plastic counter display

## POS MATERIALS at multiple locations

- Ⓐ enloop Totem
- Ⓑ enloop A3 Poster
- Ⓒ enloop Wobblers
- Ⓓ enloop Magnetic Topcards



# POS materials

**5 year warranty**

**Basic charger**  
BQ CC81 incl. 4 AA batteries  
FOR OCCASIONAL USERS

- For AA/AAA batteries 2 or 4 cells
- Individual battery charge control (Timer cut (10 hrs))
- Charging time: **10 hrs**

**Advanced charger**  
BQ CC79 incl. 4 AA batteries  
FOR FREQUENT USERS

- For AA/AAA batteries 1 to 4 cells
- Individual battery charge control (Dalle V)
- Charging time: **7 hrs**

**Smart & Quick charger**  
BQ CC85 incl. 4 AA batteries  
FOR HEAVY USERS

- For AA/AAA batteries 1 to 4 cells
- Individual battery charge control (Smart Charge)
- Charging time: **3 hrs**

**5 year warranty**

**Professional charger**  
BQ CC86  
FOR PROFESSIONAL USERS

- For AA/AAA batteries 1 to 4 cells
- Individual battery charge control (Smart Charge)
- Charging time: **2 hrs**

**8 cells charger**  
BQ CC83  
FOR HEAVY USERS

- For AA/AAA batteries 1 to 8 cells
- Individual battery charge control (Dalle V)
- Charging time: **5.0 hrs**

**USB-in charger**  
BQ CC81 incl. 4 AA batteries  
FOR TRAVELLERS

- For AA/AAA batteries 2 or 4 cells
- Charging control (Timer cut (10 hrs))
- Charging time: **10 hrs**

**eneloop pro-**

- 500x mAh
- AA - 2500 mAh
- AAA - 1900 mAh
- 85% efficiency

**eneloop**

- 2100x mAh
- AA - 1900 mAh
- AAA - 1300 mAh
- 70% efficiency

**eneloop lite-**

- 3000x mAh
- AA - 2500 mAh
- AAA - 1900 mAh
- 70% efficiency



## Magnetic topcards

500 x 125 mm



► Totem  
(200 x 60 cm)



► Wobbler



► Blister-sized leaflet



► A3 poster

► Display insert



# Display overview

## 2H / 3H magnetic hang display

### 2H METAL HANG DISPLAY

- ▶ Compact hang display
- ▶ Ideal for 2x single blisters
- ▶ Includes price tags
- ▶ Height: 360 mm / Width: 105 mm
- ▶ Net weight: 0.708 kg
- ▶ N° of hooks: 2 (flexi)
- ▶ Hook length: 18 cm
- ▶ Max # AA/4BP per hook: 12
- ▶ Max # AAA/4BP per hook: 16
- ▶ Max # chargers per hook: 3

### 3H METAL HANG DISPLAY

- ▶ Compact hang display
- ▶ Ideal for 2x single blisters and 1x chargers
- ▶ Includes price tags
- ▶ Height: 490 mm / Width: 105 mm
- ▶ Net weight: 0.787 kg
- ▶ N° of hooks: 3 (flexi)
- ▶ Hook length: 18 cm
- ▶ Max # AA/4BP per hook: 12
- ▶ Max # AAA/4BP per hook: 16
- ▶ Max # chargers per hook: 3



## 6H battery shaped counter display

- ▶ Premium counter display
- ▶ For single blisters & wideblisters
- ▶ Height: 560 mm / Width: 280 mm / Depth: 230 mm
  - ▶ Net weight: 8 kg
- ▶ N° of hooks (anti-theft): 6 (fixed)
  - ▶ Hook length: 19 cm
  - ▶ Max. # AA/4BP per hook: 12
  - ▶ Max. # AAA/4BP per hook: 16

## 4H plastic counter display

- ▶ Replaceable communication
- ▶ For single blisters & wideblisters
- ▶ Height: 350 mm / Width: 230 mm / Depth: 150 mm
- ▶ Net weight: 1.5 kg
- ▶ N° of hooks: 4 (flexi)
- ▶ Hook length: 12 cm
- ▶ Max. # AA/4BP per hook: 5
- ▶ Max. # AAA/4BP per hook: 7





## eneloop Bronze display

- ▶ Focus on eneloop pro, eneloop, eneloop lite and 1 charger
  - ▶ Consumer leaflet holder included
- ▶ Blisters can be changed depending on customer focus
  - ▶ Can be fixed to a shelf (incl. metal hooks)
  - ▶ Replaceable topcard
- ▶ Height: 240 mm / Width: 456 mm / Depth: 216 mm
  - ▶ Net weight: 2.9 kg

## eneloop Silver display

- ▶ Gondola end display on wheels
- ▶ Attractive branding in store (illuminated)
- ▶ Focus on eneloop key visual & concept
- ▶ Focus on eneloop pro, eneloop, eneloop lite and chargers
- ▶ 2 consumer leaflet holders included
- ▶ Height: 1750 mm / Width: 1000 mm / Depth: 500 mm
- ▶ Net weight: 65 kg
- ▶ N° of hooks: 31 (fixed)
- ▶ Hook length: 18 cm
- ▶ Max. # AA/4BP per hook: 12
- ▶ Max. # AAA/4BP per hook: 16
- ▶ Max. # chargers per hook: 3



## eneloop Gold display

- ▶ Island display on wheels
  - ▶ Attractive branding in store
- ▶ Focus on eneloop concept & portfolio
- ▶ Focus on eneloop pro, eneloop, eneloop lite and chargers
  - ▶ 2 consumer leaflet holders included
  - ▶ Movie screen included
- ▶ Height: 1750 mm / Width: 1000 mm / Depth: 500 mm
  - ▶ Net weight: 65 kg
  - ▶ N° of hooks: 31 (fixed)
  - ▶ Hook length: 18 cm
  - ▶ Max. # AA/4BP per hook: 12
  - ▶ Max. # AAA/4BP per hook: 16
  - ▶ Max. # chargers per hook: 3

# Online communication



[www.panasonic-eneloop.eu](http://www.panasonic-eneloop.eu)

YouTube



eneloopglobal

## eneloop's Partner Portal

where you can find all relevant Marketing and product information



- Product spec sheets
- Packaging spec sheets
- Display information
- Sales folders
- Charger manuals
- Certificates
- Product visuals
- Lifestyle visuals
- Advertisement
- Logo's
- ...



[www.partner.panasonicenergy.eu](http://www.partner.panasonicenergy.eu)

Find us on Facebook



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## Where to buy eneloop batteries?



Please follow the link of the QR-code to find a local dealer or webshop.

Go to: [www.panasonic-eneloop.eu](http://www.panasonic-eneloop.eu)



Also interested in other Panasonic solutions?  
Please see our Panasonic Battery Catalogue 2019-2020



# Technical specifications

## eneloop pro

Model N°	Size	Technology	Voltage	Capacity	Height	Diameter	Weight
BK-3HCDE	AA	Rechargeable Ni-MH	1.2 V	min. 2,500 mAh	50.4 mm	14.35 mm	29.9 g
BK-4HCDE	AAA	Rechargeable Ni-MH	1.2 V	min. 900 mAh	44.5 mm	10.5 mm	12.5 g

## eneloop

Model N°	Size	Technology	Voltage	Capacity	Height	Diameter	Weight
BK-3MCCE	AA	Rechargeable Ni-MH	1.2 V	min. 1,900 mAh	50.4 mm	14.35 mm	26 g
BK-4MCCE	AAA	Rechargeable Ni-MH	1.2 V	min. 750 mAh	44.5 mm	10.5 mm	11.6 g

## eneloop lite

Model N°	Size	Technology	Voltage	Capacity	Height	Diameter	Weight
BK-3LCCE	AA	Rechargeable Ni-MH	1.2 V	min. 950 mAh	50.4 mm	14.35 mm	18.2 g
BK-4LCCE	AAA	Rechargeable Ni-MH	1.2 V	min. 550 mAh	44.5 mm	10.5 mm	10.1 g

## eneloop for DECT




Model N°	Size	Technology	Voltage	Capacity	Height	Diameter	Weight
BK-4MCCE	AAA	Rechargeable Ni-MH	1.2 V	min. 750 mAh	44.5 mm	10.5 mm	11.6 g
BK-4LCCE	AAA	Rechargeable Ni-MH	1.2 V	min. 550 mAh	44.5 mm	10.5 mm	10.1 g

## spacers

Model N°	Size	Height	Diameter	Weight
BQ-BS1E	D	61.4 mm	32.15 mm	20.9 g
BQ-BS2E	C	48.02 mm	25.12 mm	10.3 g

# Cross reference

	AA		
	High	Middle	Low
<b>Blister</b>			
<b>Subbrand</b>	eneloop pro	eneloop	eneloop lite
<b>Min. capacity <sup>(1)</sup></b>	2,500 mAh	1,900 mAh	950 mAh
<b>Cycle life <sup>(2)</sup></b>	500 times	2,100 times	3,000 times
<b>Low self discharge <sup>(1)</sup></b>	up to 85% after 1 year	up to 70% after 10 years	up to 70% after 5 years
<b>Charge</b>	0 ~40°C	0 ~40°C	0 ~40°C
<b>Discharge</b>	-5 ~ 50°C	-5 ~ 50°C	-5 ~ 50°C

	AAA		
	High	Middle	Low
<b>Blister</b>			
<b>Subbrand</b>	eneloop pro	eneloop	eneloop lite
<b>Min. capacity <sup>(1)</sup></b>	930 mAh	750 mAh	550 mAh
<b>Cycle life <sup>(2)</sup></b>	500 times	2,100 times	3,000 times
<b>Low self discharge <sup>(1)</sup></b>	up to 85% after 1 year	up to 70% after 10 years	up to 70% after 5 years
<b>Charge</b>	0 ~40°C	0 ~40°C	0 ~40°C
<b>Discharge</b>	-5 ~ 50°C	-5 ~ 50°C	-5 ~ 50°C

<sup>(1)</sup> Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use).

<sup>(2)</sup> Panasonic internal testing IEC61951-2 2011(7.5.1.3); 150 cycles (eneloop pro), 600 cycles (eneloop) and 1,000 cycles (eneloop lite) according to IEC61951-2 2017(7.5.1.4).



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**eneloop**  
Ready to use Rechargeable Battery <sup>TM</sup>

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