

Calcalca Cal

Catalogue 2015-2016

Panasonic

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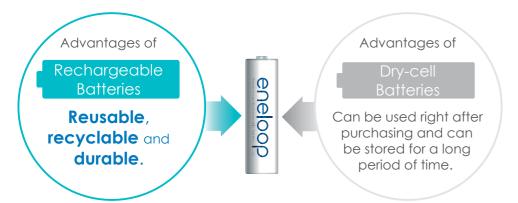
What is eneloop?

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....
This is PANASONIC's answer



Represent a new life style.



It is a new battery that can be used as easily as a dry-cell battery, and reused simply by recharging it. eneloop is the new battery that might just change your lifestyle.

eneloop — The next generation of environmentally friendly batteries favored by over 60 countries* around the world proposes a new lifestyle shift from 'Disposable' to 'Reusable'. Change the future of our environment by changing your battery. *as of Aug 2012

Ready to use Rechargeable Battery

TM

The advantages of the rechargeable battery and the dry-cell battery are combined into one

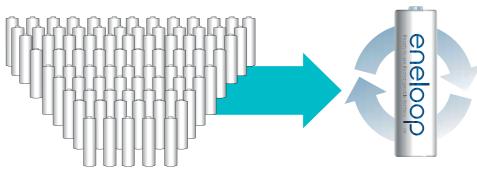
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Benefits

Economic benefits

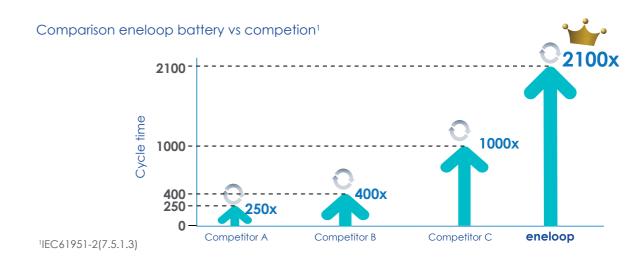
While the initial cost of rechargeable batteries is high, your investment in eneloop will be recovered after only a few recharging cycles and the long term savings are substantial. eneloop batteries can be recharged up to 2100 times.

Comparison eneloop vs dry-cell batteries



up to 2100 Dry-cell batteries

1 eneloop battery

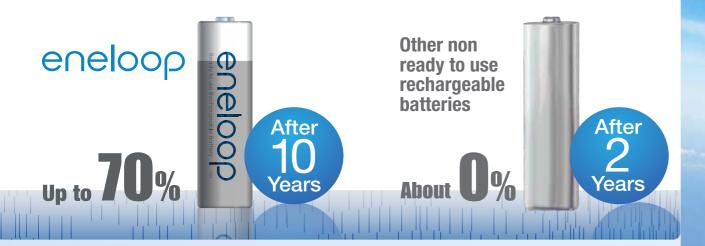


eneloop can be recharged up to 2100 times, which represents a huge economic advantage



Ready to use

eneloop batteries are delivered pre-charged and are ready for immediate use upon purchase. There is no need to charge before use.



Low self-discharge

While other non ready to use rechargeable batteries lose their charge over time, PANASONIC's eneloop technology enables these batteries to keep 70% of their charge up to 10 years.

*Panasonic internal IEC (61951-2(7.3.2)) testing. Varies according to conditions of use.

eneloop is ready-to-use even after 10 years* of storage

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Recyclable and environmentally friendly

It is estimated that over 40 billion dry-cells were disposed worldwide last year. eneloop rechargeable batteries represent renewable energy and can be charged up to 2100* times! Using eneloop rechargeable batteries will help in the reduction of disposable waste and thus benefit the environment. Let's keep batteries out of our landfill.

* 2100 cycle times is available for eneloop AA & AAA batteries

Clean Energy Loop



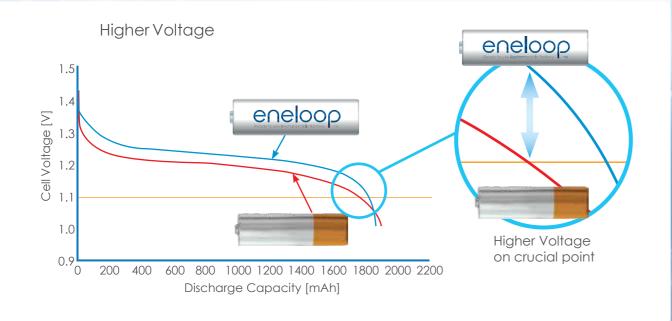
Through the Green Power Certification System, eneloop is pre-charged by "green power" from photovoltaic generation





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 is lower than 1,1 Volt. A traditional Ni-MH battery will lose its voltage constantly and runs under this critical level very soon. eneloop however will keep the voltage level over 1,1 Volt for a long time, and only just before becoming empty will fall under that limit. That's one of the reasons why you can take more photos with eneloop.



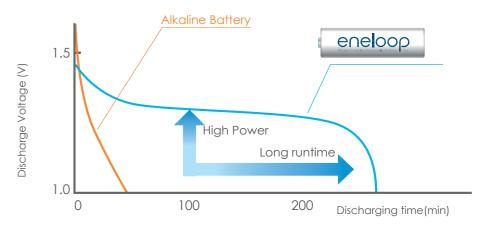
eneloop has higher usable capacity than standard batteries

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Low temperature operations

eneloop has superior performance at 0°C and can even be used at temperature as low as -20°C.

Discharging characteristics at 0°C (at 500mA continuous discharge)

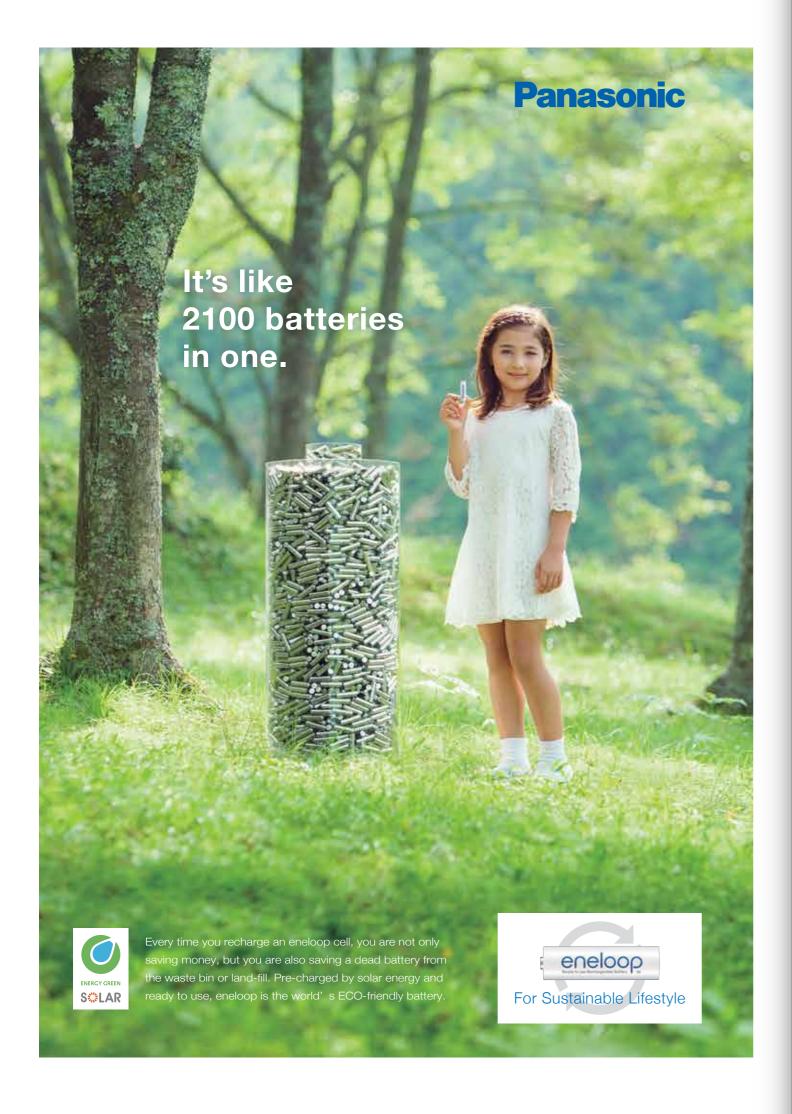




eneloop is able to maintain a low selfdischarge rate even in temperatures as low as -20°C. Operation time will be shorter than that of room temperature.

Superior discharge at low temperature!





eneloop 2015

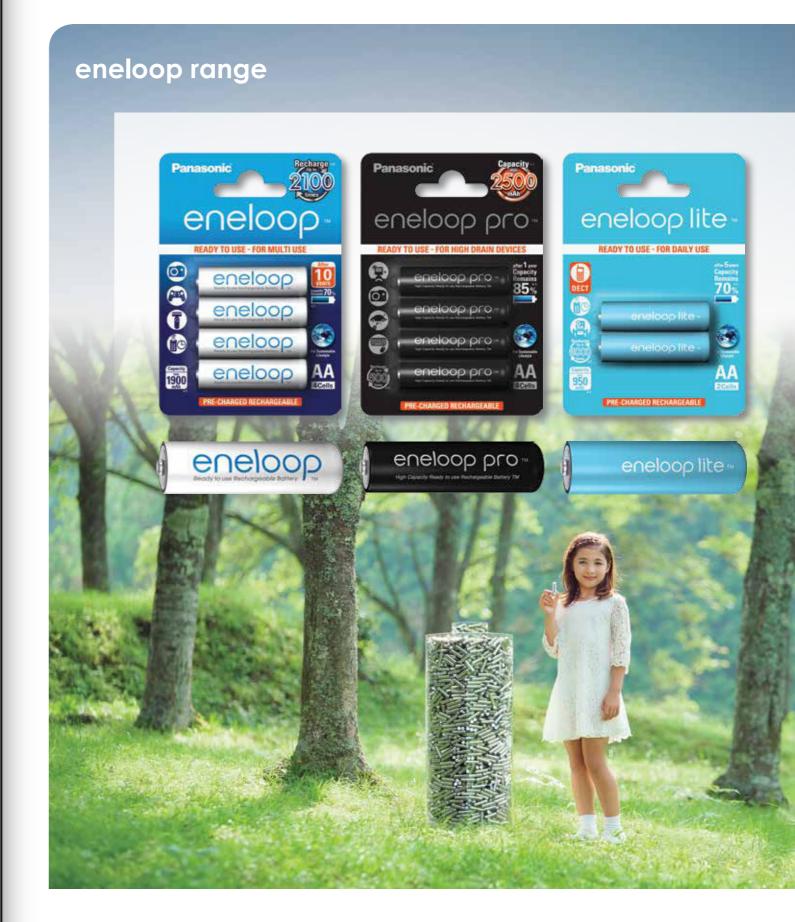
Theme

Since the launch of eneloop in 2005, we want to focus on a sustainable lifestyle with the eneloop battery. Everytime you recharge an eneloop cell, you are not only saving money, but you are also saving a dead battery from the waste bin or land-fill. Pre-charged by solar energy and ready to use, eneloop is the world's ECO-friendly battery.









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eneloop



eneloop is a long-life, pre-charged, energy and money saving, recyclable rechargeable battery which can be charged and discharged now even up to 2100 times.









*1Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use)
*2Panasonic internal testing IEC61951-2 (7.5.1.3)

APPLIANCES



	Min				Blisters/	Cartons/
Size	Capacity (mAh)	CSU EAN	Global Code	CSU	Carton	Outer Carton
AA	1900	5410853052623	BK-3MCCE/2BE	2	8	12
AA	1900	5410853052630	BK-3MCCE/4BE	4	10	12
AA	1900	5410853052647	BK-3MCCE/8BE	8	10	4
AA	1900	5410853052654	BK-3MCCEC4BE	4 + case	8	12
AAA	750	5410853052678	BK-4MCCE/2BE	2	10	12
AAA	750	5410853052685	BK-4MCCE/4BE	4	12	12
AAA	750	5410853052692	BK-4MCCE/8BE	8	10	4
AAA	750	5410853052708	BK-4MCCEC4BE	4 + case	8	12
mix	1900/750	5410853052715	BK-KJMCCE44E	4AA+4AAA	10	4
AA	1900	5410853052616	BK-3MCCE/BF1	1	500	N/A
AAA	750	5410853052661	BK-4MCCE/BF1	1	500	N/A
	AA AA AAA AAA AAA AAA AAA AAA AAA	(mAh) AA 1900 AA 1900 AA 1900 AA 1900 AA 1900 AAA 750 AAA 750 AAA 750 AAA 750 AAA 750 AAA 1900/750 AA 1900	Size Capacity (mAh) CSU EAN AA 1900 5410853052623 AA 1900 5410853052630 AA 1900 5410853052647 AA 1900 5410853052654 AAA 750 5410853052678 AAA 750 5410853052685 AAA 750 5410853052692 AAA 750 5410853052708 mix 1900/750 5410853052715 AA 1900 5410853052616	Size Capacity (mAh) CSU EAN Global Code AA 1900 5410853052623 BK-3MCCE/2BE AA 1900 5410853052630 BK-3MCCE/4BE AA 1900 5410853052647 BK-3MCCE/8BE AA 1900 5410853052654 BK-3MCCEC4BE AAA 750 5410853052678 BK-4MCCE/2BE AAA 750 5410853052685 BK-4MCCE/4BE AAA 750 5410853052692 BK-4MCCE/8BE AAA 750 5410853052708 BK-4MCCEC4BE mix 1900/750 5410853052715 BK-KJMCCE44E AA 1900 5410853052616 BK-3MCCE/BF1	Size Capacity (mAh) CSU EAN Global Code CSU AA 1900 5410853052623 BK-3MCCE/2BE 2 AA 1900 5410853052630 BK-3MCCE/4BE 4 AA 1900 5410853052647 BK-3MCCE/8BE 8 AA 1900 5410853052654 BK-3MCCEC4BE 4 + case AAA 750 5410853052678 BK-4MCCE/2BE 2 AAA 750 5410853052685 BK-4MCCE/4BE 4 AAA 750 5410853052692 BK-4MCCE/8BE 8 AAA 750 5410853052708 BK-4MCCEC4BE 4 + case mix 1900/750 5410853052715 BK-KJMCCE44E 4AA+4AAA AA 1900 5410853052616 BK-3MCCE/BF1 1	Size Capacity (mAh) CSU EAN Global Code CSU Carton AA 1900 5410853052623 BK-3MCCE/2BE 2 8 AA 1900 5410853052630 BK-3MCCE/4BE 4 10 AA 1900 5410853052647 BK-3MCCE/8BE 8 10 AA 1900 5410853052654 BK-3MCCEC4BE 4 + case 8 AAA 750 5410853052678 BK-4MCCE/2BE 2 10 AAA 750 5410853052685 BK-4MCCE/4BE 4 12 AAA 750 5410853052692 BK-4MCCE/8BE 8 10 AAA 750 5410853052708 BK-4MCCE/4BE 4 + case 8 mix 1900/750 5410853052715 BK-KJMCCE44E 4AA+4AAA 10 AA 1900 5410853052616 BK-3MCCE/BF1 1 500



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Ready to use Rechargeable Battery Tru

eneloop pro

eneloop pro



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







*1Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use)
*2Panasonic internal testing IEC61951-2 (7.5.1.3)

APPLIANCES



			Min.			Batteries/	Blisters/	Cartons/
	Name	me Size Capacit (mAh)	Capacity (mAh)	CSU EAN	Global Code	CSU	Carton	Outer Carton
N	eneloop pro	AA	2500	5410853052579	BK-3HCDE/4BE	4	10	12
	eneloop pro	AAA	930	5410853052609	BK-4HCDE/4BE	4	12	12
	eneloop pro	AA	2500	5410853052562	BK-3HCDE/BF1	1	500	N/A
	eneloop pro	AAA	930	5410853052593	BK-4HCDE/BF1	1	500	N/A



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eneloop

eneloop lite

eneloop lite batteries are ideal for low-to-medium power consumption devices, such as DECT phones and remote controls. They are rechargeable for up to 3000 times which makes it even more economically and environment-friendly.









*1Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use)
*2Panasonic internal testing IEC61951-2 (7.5.1.3)

APPLIANCES







		Min.			Batteries/	Blisters/	Cartons/
Name	Size	Capacity (mAh)	CSU EAN	Global code	CSU	Carton	Outer Carton
eneloop lite	AA	950	5410853052739	BK-3LCCE/2BE	2	8	12
eneloop lite	AAA	550	5410853052753	BK-4LCCE/2BE	2	10	12
eneloop lite	AAA	550	5410853052760	BK-4LCCE/4BE	4	12	12
eneloop lite	AA	950	5410853052722	BK-3LCCE/BF1	1	500	N/A
eneloop lite	AAA	550	5410853052746	BK-4LCCE/BF1	1	500	N/A



Panasonic

eneloop lite

950

Panasonic

eneloop lite-

READY TO USE - FOR DAILY USE

eneloop lite -

encloop lite ...

PRE-CHARGED RECHARGEABLE

2Cells

eneloop lite

eneloop lite

Rechargeable battery information chart

	eneloop BK3MCCE				
Capacity (AA) *1	min. 1900 mAh up to 2000 mAh				
Recharge*2	up to 2100 times				
Туре	Low Self-Discharge for Multi-Use				

Recommended equipment









Digital Cameras

Approx.

2 hours

Approx.

3 hours

Approx.

1 hour





eneloop pro BK3HCDE

min. 2500 mAh up to 2550 mAh

up to 500 times

eneloop lite

eneloop lite **BK3LCCE**

min. 950 mAh up to 1000 mAh

up to 3000 times

High Capacity for High Drain Devices Basic Rechargeable for Daily Use













Games & Toys Torch Lights

Wireless Devices

Approx.

60 hours

Approx.

80 hours







Daily Use

Usage time (AA)



eneloop



eneloop pro





Alkaline battery



Radio Control Cars

Approx.

2 hours

Approx.

3 hours

Approx. **1.5** hours

Approx. **1.8** hours

Approx. **0.7** hours

> Approx. hours

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

Approx. 1 hours

Approx.

hours

Approx. 30 minutes

Beauty & Health

Approx. 3 hours

Approx. **3.3** hours

Approx. **1.5** hours

Approx. **1.5** hours



Approx.

5 hours

Approx.

6 hours

Approx.

2.5 hours

Approx. **6** hours

Approx.

8 hours

Approx. 3 hours

Approx. Approx. 4 hours 8 hours

Games & Toys

Approx. 20 hours

Approx. 25 hours

Approx.

25 hours

Approx. Approx. 10 hours

30 hours

Approx. 25 hours

Approx.

150 hours

(Standby Mode)

Approx.

170 hours

(Standby Mode)

Approx.

240 hours

(Standby Mode)

Toys





Approx.

2 years

Approx. 70 hours (Standby Mode)

year

Approx. 2 years

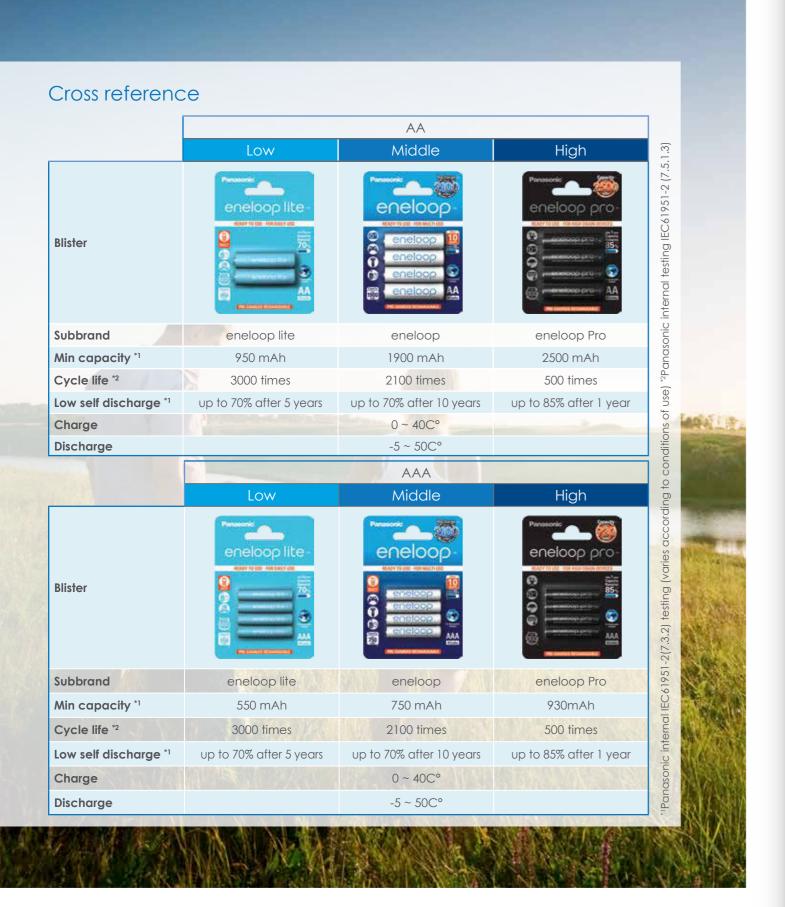
Approx.

Usable temperature ranges •Discharging (installed in devices): -5°C to 50°C •Charging: 0°C to 40°C •Storage: -20°C to 30°C Usage outside of these temperature ranges may adversely affect battery performance and/or lifespan.

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ambient temperature & conditions of equipment.

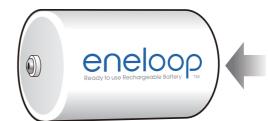




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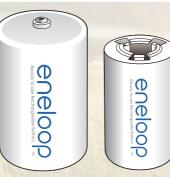
C & D adaptor - Spacers

Even though 85% of all disposable batteries sold are either AA or AAA size, there are still some applications, which require other battery sizes. The two next common sizes are C and D. Typical examples, where these sizes are required are big torches or portable radios. For these cases we offer simple but smart plastic adaptors, which transform an AA-size eneloop into a C- or D-size battery.









HOW-TO

Plug the eneloop into the adaptor and you can use it in your equipment. Of course the adaptors only adapt the mechanical dimensions of the eneloop (length and diameter) and obviously not its electrical characteristics. The voltage and the capacity remain unchanged to the eneloop AA specification.

			Clabal	Batteries/	Blisters/	Cartons/
Name	Size	CSU EAN	Global Code	Blister	Carton	Outer Carton
Spacer	D	5410853052838	BQ-BS1E/2E	2	6	24
Spacer	С	5410853052845	BQ-BS2E/2E	2	6	24



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Chargers



Basic charger – BQ CC51 – For occasional users

- Can charge AA / AAA 2 or 4 cells
- Can be used all over the world(100-240V)
- Timer Control

Item	Spec
Input	AC100-240V 50-60Hz
Input part Structure	Fixed plug
Charging output	DC 3V AA 250mA x 2 / AAA 120mA x 2
Charging control	Timer cut
Indicator	LED x 2 Charging: ON, Full charged: OFF
Charger battery	AA x 2, 4 / AAA x 2, 4 cells
Charging time	AA: Approx 10 hours AAA: Approx 10 hours
Charger size (cm) (W x H x D)	6,6 x 10,8 x 7,0
Weight	Approx. 90 g
Case color	white



Advanced charger - BQ CC17 - For frequent users

- Can charge AA / AAA 4 cells
- Can be used all over the world(100-240V)
- Individual management/-ΔV Control

Item	Spec
Input	AC100-240V 50-60Hz
Input part Structure	Plug-in and attachment plug
Charging output	DC 1.5V AA 300mA x 4 / AAA 150mA x 4
Charging control	-ΔV /Timer
Indicator	LED x 4 Charging: ON, Fully charged: OFF
Charger battery	AA x 1, 2, 3, 4 / AAA x 1, 2, 3, 4 cells
Charging time	AA: Approx 7hr [2,000mAh] AAA: Approx 6hr [800mAh]
Charger size (cm) (W x H x D)	6,5 x 10,5 x 7,5
Weight	107,4 g
Case color	white



- Rapid charge (AA 2cell: 2hours/4cells: 4hours)
- Individual management/charge control(Smart Charge¹)
- Can be used all over the world(100-240V)

eneloop

Item	Spec		
Input	AC100-240V 50-60Hz		
Input part Structure	Plug in and attachment plug		
Charging output	DC 1.5V AA 550mA×4 / AAA 275mA×4		
Charging control	Smart Charge¹/-ΔV /Timer		
Indicator	LED x 4 Charging: ON, Full charged: OFF		
Charger battery	AA x 1, 2, 3, 4 / AAA x 1, 2, 3, 4 cells		
Charging time	AA: Approx 2hours/4hours [2,000mAh] AAA: Approx 1.5hours/3hours [800mAh]		
Charger size (cm) (W x H x D)	6,5 x 10,5 x 7,5		
Weight	114,42 g		
Case color	white		

¹This 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.

					Min.			Batteries/	Blisters/
Rank	Name	Plug	Battery	Size	Capacity ((mAh)	CSU EAN	Global Code	Charger	Carton
High	CC16	EU	N/A	N/A	N/A	5410853055914	BQ-CC16E	N/A	8
High	CC16	EU	eneloop pro	AA	2 500	5410853052265	K-KJ16HCD40E	4	8
High	CC16	EU	eneloop	AA	1 900	5410853052272	K-KJ16MCC40E	4	8
High	CC16	UK	eneloop	AA	1 900	5410853052289	K-KJ16MCC40U	4	8
Middle	CC17	EU	eneloop	AA	1 900	5410853052296	K-KJ17MCC40E	4	8
Low	CC51	EU	N/A	N/A	N/A	5410853056676	BQ-CC51E	N/A	8
Low	CC51	EU	eneloop	AA	1 900	5410853056683	K-KJ51MCC40E	4	8
Low	CC51	EU	eneloop	AAA	750	5410853056690	K-KJ51MCC04E	4	8
Low	CC18	UK	eneloop	AA	1 900	5410853052333	K-KJ18MCC40U	4	8





Charger information chart



Smart & Quick CHARGER:

BQ-CC16 K-KJ16MCC



Advanced CHARGER:

BQ-CC17 K-KJ17MCC



Basic CHARGER:

BQ-CC51 K-KJ51MCC



Battery Type Ni-MH Ni-MH Ni-MH

Charging time		1 pc./ 2 pcs.	3 pcs./ 4 pcs.	1 pc./ 2 pcs. / 3 pcs./ 4 pcs.	2 pcs.	4 pcs.
eneloop eneloop	AA	2 hrs.	4 hrs.	7 hrs.	10 hrs.	10 hrs.
	AAA	1.5 hrs.	3 hrs.	6 hrs.	10 hrs.	10 hrs.
eneloop pro	AA	2.5 hrs.	5 hrs.	9 hrs.	12 hrs.	12 hrs.
eneloop pro	AAA	2 hrs.	4 hrs.	7 hrs.	10 hrs.	10 hrs.
eneloop lite eneloop lite	AA	1 hr.	2 hrs.	3.5 hrs.	5 hrs.	5 hrs.
	AAA	1.25 hrs.	2.5 hrs.	5 hrs.	7 hrs.	7 hrs.

Specification				
Input	AC100-240V 50-60Hz	AC100-240V 50-60Hz	AC100-240V 50-60Hz	
Charging output	DC1.5 V AA 550mA x4 / AAA 275mA x4	DC 1.5 V AA 300mA x4 / AAA 150mA x4	DC 3V AA 250mA x 2 / AAA 120mA x 2	
Charging control	Charging control Smart Charge / -∆V / Timer		Timer	
Indicator	Indicator LED x4 Charging: ON, Full charged: OFF		LED x2	
Charger battery	AA x1,2,3,4 / AAA x1,2,3,4 cells	AA x1,2,3,4 / AAA x1,2,3,4 cells	AA x2,4 / AAA x2,4 cells	
Dimensions (approx.)	105(L) x 65(W) x 75(D) mm	105(L) x 65(W) x 75(D) mm	108(L) x 66(W) x 70(D) mm	
Weight (approx.)	114,42 g	107,4 g	90 g	

Panasonic

Other solutions

High Capacity

Our high capacity rechargeable battery is the ideal rechargeable battery for high drain appliances
Excellent price versus quality ratio

<u>APPLIANCES</u>



AA

AAA





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





Ni-MH

Name	Size	Min. Capacity (mAh)	CSU EAN	Global code	Batteries/	Blisters/	Cartons/		
					CSU	Carton	Bundle		
High Capacity	AA	2500	5410853052791	BK-3HGAE/2BE	2	12	5		
High Capacity	AA	2500	5410853052807	BK-3HGAE/4BE	4	12	5		
High Capacity	AAA	930	5410853052821	BK-4HGAE/2BE	2	12	5		
High Capacity	AA	2500	5410853052777	BK-3HGAE/BF1	1	500	N/A		
High Capacity	AAA	930	5410853052814	BK-4HGAE/BF1	1	500	N/A		

Usable temperature ranges \bullet Discharging (installed in devices): -5°C to 50°C \bullet Charging: 0°C to 40°C \bullet Storage: -20°C to 30°C Usage outside of these temperature ranges may adversely affect battery performance and/or lifespan.

Technical specifications

eneloop

Model N°	Size	Technology	Voltage (V)	Capacity (mAh) ^[1]	Height (mm)	Diameter (mm)	Weight (g)
BK-3MCCE	AA	Rechargeable	1,2 V	1900	50,4	14,35	27
BK-4MCCE	AAA	Ni-MH Battery Rechargeable Ni-MH Battery	1,2 V	750	44,5	10,5	13

eneloop pro

Model N°	Size	Technology	Voltage (V)	Capacity (mAh) ⁽¹⁾	Height (mm)	Diameter (mm)	Weight (g)
BK-3HCDE	AA	Rechargeable Ni-MH Battery	1,2 V	2500	50,4	14,5	30
BK-4HCDE	AAA	Rechargeable Ni-MH Battery	1,2 V	930	44,5	10,5	13

eneloop lite

Model N°	Size	Technology	Voltage (V)	Capacity (mAh) ^[1]	Height (mm)	Diameter (mm)	Weight (g)
BK-3LCCE	AA	Rechargeable	1,2 V	950	50,4	14,2	19
		Ni-MH Battery					
BK-4LCCE	AAA	Rechargeable	1.2 V	550	44.5	10,5	11
		Ni-MH Battery					

Spacers

Model N°	Size	Height (mm)	Diameter (mm)	Weight (g)
Spacer C	C	48,1	25,7	29
Spacer D	D	60,6	32,5	29

High Capacity

Model N°	Size	Technology	Voltage (V)	Capacity (mAh) ⁽¹⁾	Height (mm)	Diameter (mm)	Weight (g)
BK-3HGAE	l AA	Rechargeable	1,2 V	2500	50,4	14,5	30
DK-3110AE	AA	Ni-MH Battery	1,2 ¥	2000	JU,4	14,0	JU
BK-4HGAE	AAA	Rechargeable Ni-MH Battery	1,2 V	930	44,5	10,5	13

(1) min capacity





Panasonic Energy Europe

Panasonic group worldwide

Panasonic Energy Europe, your professional battery partner

- Consumer understanding
- Expert in category management
- Top class supply chain management
- 100% dedicated Sales & Marketing organization covering total Europe

Worldwide leading enterprise

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

> Company Name: **Head Office Location:**

Panasonic Corporation Inc. Osaka - Japan

President: Foundation: Kazuhiro Tsuga

March, 1918 (incorporated in December, 1935)

Net Sales^[1]:

7,303.0 billion yen 293,742

Number of employees⁽¹⁾: Number of Consolidated Companies^[1]:

538 (including parent company)

Panasonic batteries worldwide

Production and capacity advantages

- INTEGRATION
- R&D, product and production technology
- EFFICIENCY

Highly efficient and flexible manufacturer with short time to market

- COVERAGE
- 38 factories covering all regions
- EXPERIENCE

More than 80 years in battery manufacturing (since 1931)



Panasonic batteries in Europe

An organization 100% dedicated to batteries

- BUSINESS
- A battery dedicated company
- INTEGRATION

Unified production, logistics and sales support

• LOCAL MANUFACTURING

Two European production sites:

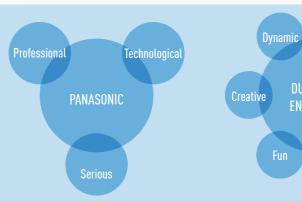
Local flexibility and short delivery times In line with EU quality and environmental standards

 DISTRIBUTION European distribution centre in Belgium Hub for Eastern Europe in Poland



A powerful brand

- HIGH UMBRELLA BRAND AWARENESS [1] 64th position in the "Best Global Brands
- Panasonic is in the top 5 of best global green brands 2014.
- DIFFERENTIATED BRAND POSITIONING VS. OTHER BATTERY SUPPLIERS (2) Panasonic offers a real alternative in the battery category





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