



eneloop

Ready to use Rechargeable Battery

Catalogue 2015-2016

Panasonic

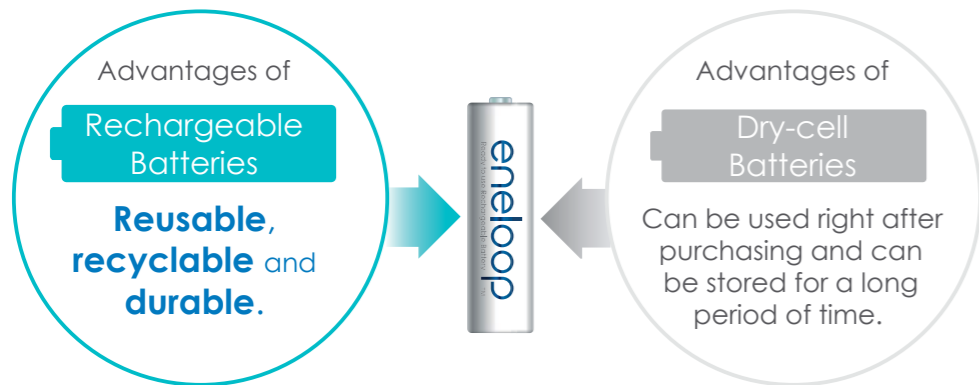
Index	4
What is eneloop?	4
Benefits	5
• Economic benefits	5
• Ready to use	6
• Low self-discharge	6
• Recyclable and environmentally friendly	7
• High power battery	8
• Low temperature operations	9
eneloop 2015	11
• Theme	11
• POS materials	12
• Online communication	12
eneloop range	13
• eneloop	14
• eneloop pro	16
• eneloop lite	18
• Rechargeable battery information chart	20
• Cross reference	22
• C & D adaptor - Spacers	23
• Chargers	24
• Charger information chart	26
Other solutions	28
• High Capacity	28
Technical specifications	29
Panasonic Energy Europe	30
• Panasonic group worldwide	30
• Panasonic batteries worldwide	30
• Panasonic batteries in Europe	31
• Also interested in other Panasonic solutions?	31

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

eneloop 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



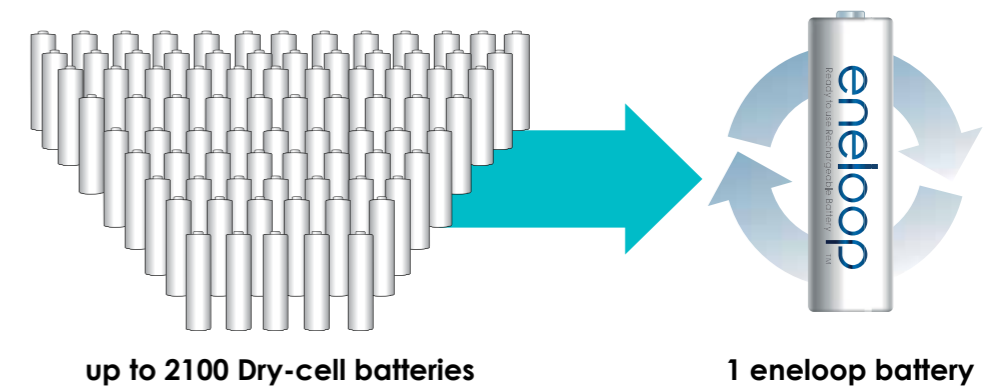
The advantages of the rechargeable battery and the dry-cell battery are combined into one

Benefits

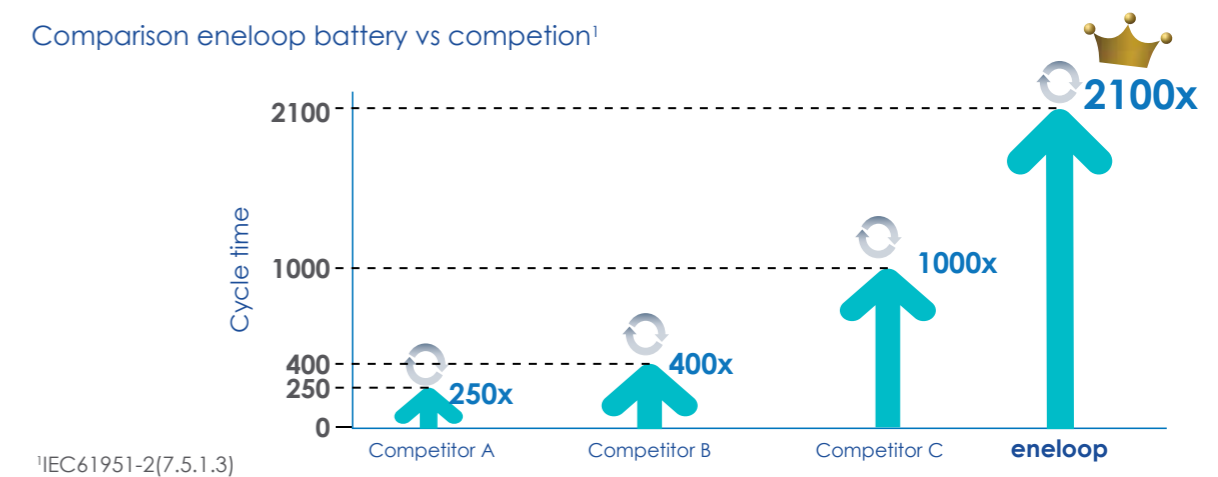
Economic benefits

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



Comparison eneloop battery vs competition¹



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.

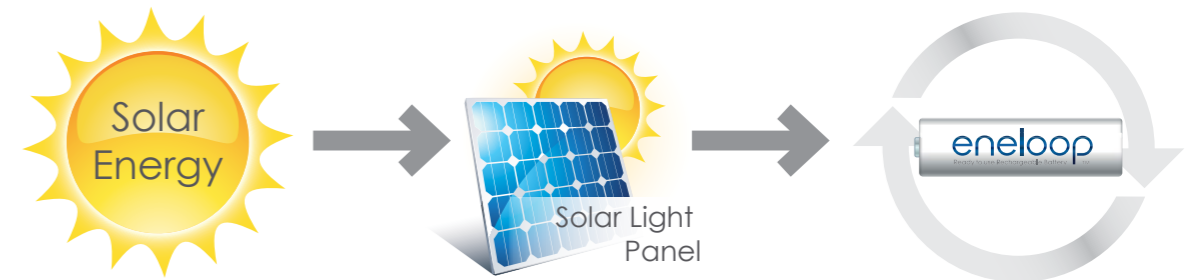
eneloop is ready-to-use even after 10 years* of storage

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

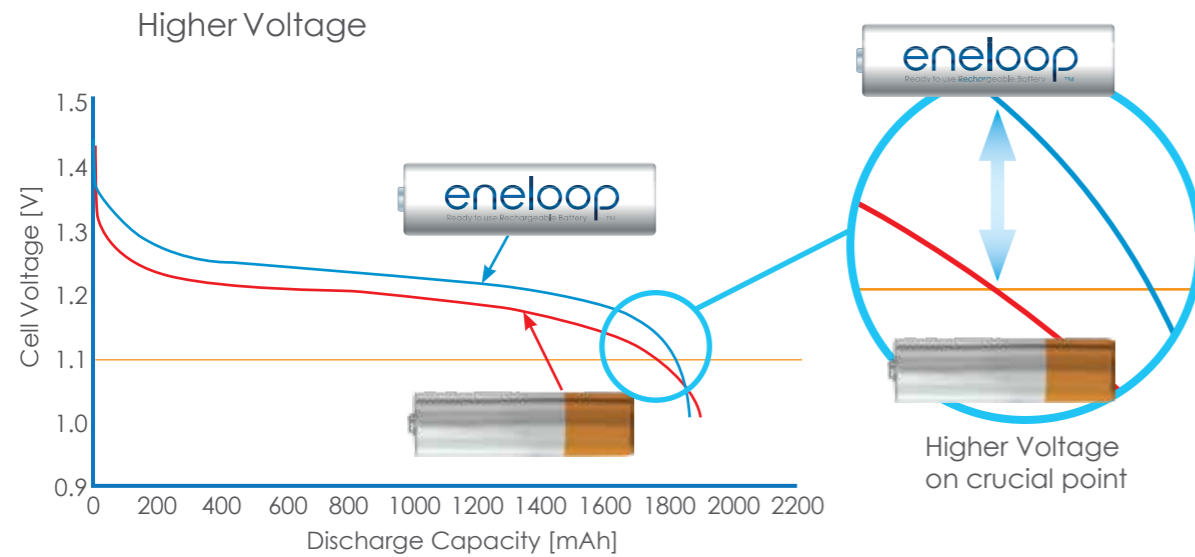


Through the Green Power Certification System, eneloop is pre-charged by "green power" from photovoltaic generation

eneloop has a clean energy loop

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.

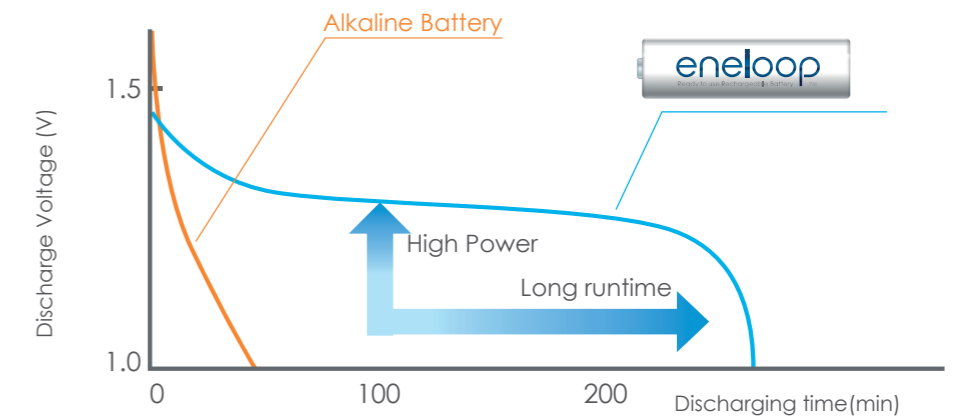


eneloop has higher usable capacity than standard batteries

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 self-discharge rate even in temperatures as low as -20°C. Operation time will be shorter than that of room temperature.

Superior discharge at low temperature!

Panasonic

It's like
2100 batteries
in one.



Every time 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.



For Sustainable Lifestyle

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.

Panasonic

It's like 2100 batteries in one.



Every time 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.



eneloop

POS materials

Arch / Totem / Standee / Metal Display



Wobbler/consumer leaflet/magnetic topcards



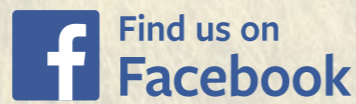
Online communication



www.panasonic-eneloop.eu



<https://www.youtube.com/user/eneloopglobal>



www.facebook.com/eneloop.eu

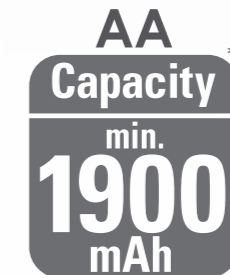
eneloop range



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.



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

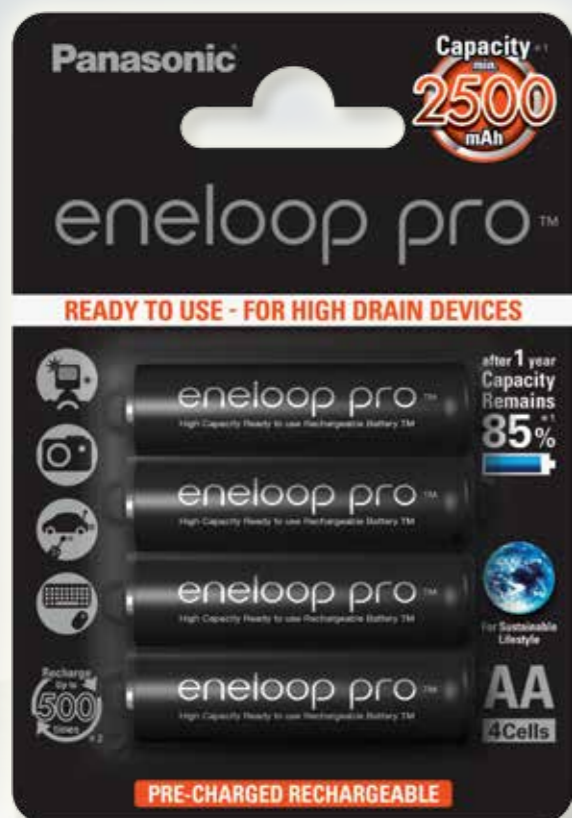
APPLIANCES



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



eneloop pro



Panasonic

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.

AA
Capacity^{*1}
min.
2500
mAh

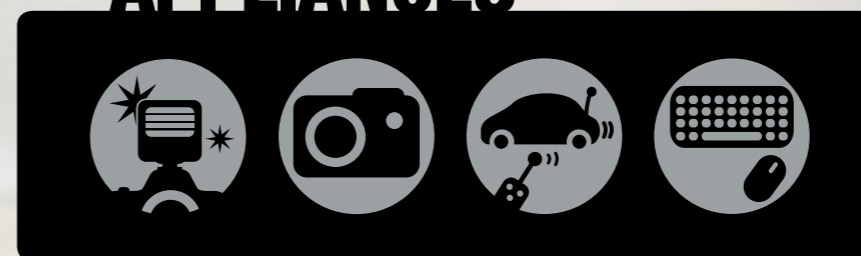
AAA
Capacity^{*1}
min.
930
mAh

Recharge^{*2}
Up to
500
times

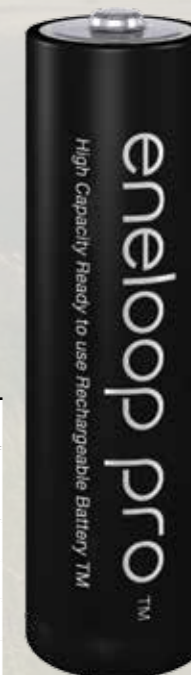
after 1 year
Capacity
Remains
85%^{*1}

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

APPLIANCES



Name	Size	Min. Capacity (mAh)	CSU EAN	Global Code	Batteries/	Blisters/	Cartons/
					CSU	Carton	Outer Carton
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

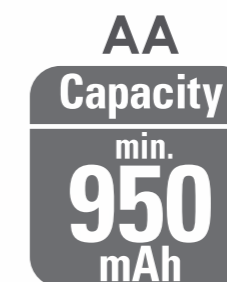


eneloop

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)













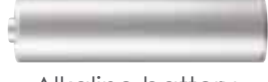
APPLIANCES



Name	Size	Min. Capacity (mAh)	CSU EAN	Global code	Batteries/	Blisters/	Cartons/
					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

Rechargeable battery information chart


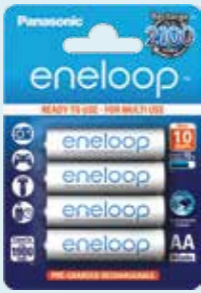

	 eneloop BK3MCCE	 eneloop pro BK3HCDE	 eneloop lite BK3LCCE
Capacity (AA) *1	min. 1900 mAh up to 2000 mAh	min. 2500 mAh up to 2550 mAh	min. 950 mAh up to 1000 mAh
Recharge *2	up to 2100 times	up to 500 times	up to 3000 times
Type	Low Self-Discharge for Multi-Use	High Capacity for High Drain Devices	Basic Rechargeable for Daily Use
Recommended equipment	     Digital Cameras Beauty & Health Games & Toys Torch Lights Daily Use	     DSLR Flash Radio Control Cars Games & Toys Torch Lights Wireless Devices	     Games & Toys Torch Lights Toys DECT Phones Daily Use


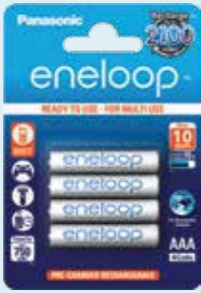

Usage time (AA)	 DSLR Flash	 Radio Control Cars	 Digital Cameras	 Beauty & Health	 Torch Lights	 Toys	 Games & Toys	 Wireless Devices	 DECT Phones	 Daily Use
 eneloop	Approx. 1.5 hours	Approx. 2 hours	Approx. 2 hours	Approx. 3 hours	Approx. 5 hours	Approx. 6 hours	Approx. 20 hours	Approx. 60 hours	Approx. 150 hours (Standby Mode)	Approx. 2 years
 eneloop pro	Approx. 1.8 hours	Approx. 3 hours	Approx. 3 hours	Approx. 3.3 hours	Approx. 6 hours	Approx. 8 hours	Approx. 25 hours	Approx. 80 hours	Approx. 170 hours (Standby Mode)	Approx. 2 years
 eneloop lite	Approx. 0.7 hours	Approx. 1 hours	Approx. 1 hour	Approx. 1.5 hours	Approx. 2.5 hours	Approx. 3 hours	Approx. 10 hours	Approx. 30 hours	Approx. 70 hours (Standby Mode)	Approx. 1 year
 Alkaline battery	Approx. 1 hours	Approx. 1 hours	Approx. 30 minutes	Approx. 1.5 hours	Approx. 4 hours	Approx. 8 hours	Approx. 25 hours	Approx. 25 hours	Approx. 240 hours (Standby Mode)	Approx. 2 years

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

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.

Cross reference

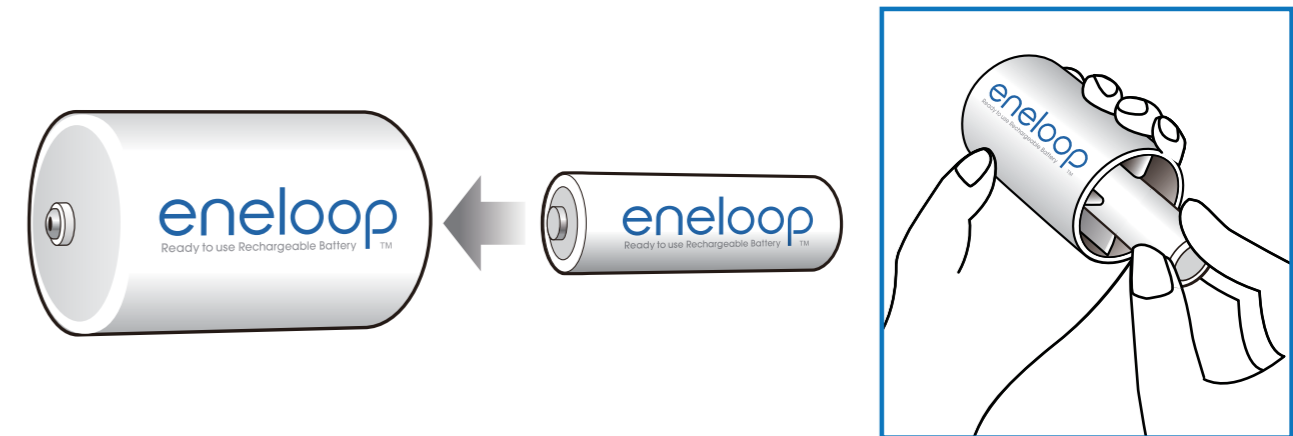
	AA		
	Low	Middle	High
Blister			
Subbrand	eneloop lite	eneloop	eneloop Pro
Min capacity ^{*1}	950 mAh	1900 mAh	2500 mAh
Cycle life ^{*2}	3000 times	2100 times	500 times
Low self discharge ^{*1}	up to 70% after 5 years	up to 70% after 10 years	up to 85% after 1 year
Charge	0 ~ 40C°		
Discharge	-5 ~ 50C°		

	AAA		
	Low	Middle	High
Blister			
Subbrand	eneloop lite	eneloop	eneloop Pro
Min capacity ^{*1}	550 mAh	750 mAh	930mAh
Cycle life ^{*2}	3000 times	2100 times	500 times
Low self discharge ^{*1}	up to 70% after 5 years	up to 70% after 10 years	up to 85% after 1 year
Charge	0 ~ 40C°		
Discharge	-5 ~ 50C°		

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

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.

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

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



Smart & Quick charger – BQ CC16 – For heavy users


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

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 Charge ¹ /-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.

Rank	Name	Plug	Battery	Size	Min. Capacity (mAh)	CSU EAN	Global Code	Batteries/	Blisters/
								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	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.
	AAA	2 hrs.	4 hrs.	7 hrs.		10 hrs.	10 hrs.
 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						
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 x2 / AAA 120mA x2	
Charging control	Smart Charge / -ΔV / Timer			-ΔV / Timer		Timer	
Indicator	LED x4 Charging: ON, Full charged: OFF			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	

Other solutions

High Capacity

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

APPLIANCES



Capacity min.*1
2500
mAh

AA

Capacity min.*1
930
mAh

AAA

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



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 •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.

Panasonic

Technical specifications

eneloop

Model N°	Size	Technology	Voltage (V)	Capacity (mAh) ⁽¹⁾	Height (mm)	Diameter (mm)	Weight (g)
BK-3MCCE	AA	Rechargeable Ni-MH Battery	1,2 V	1900	50,4	14,35	27
BK-4MCCE	AAA	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 Ni-MH Battery	1,2 V	950	50,4	14,2	19
BK-4LCCE	AAA	Rechargeable Ni-MH Battery	1,2 V	550	44,5	10,5	11

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	AA	Rechargeable Ni-MH Battery	1,2 V	2500	50,4	14,5	30
BK-4HGAE	AAA	Rechargeable Ni-MH Battery	1,2 V	930	44,5	10,5	13

⁽¹⁾ min capacity

eneloop

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:	Panasonic Corporation Inc.
Head Office Location:	Osaka - Japan
President:	Kazuhiro Tsuga
Foundation:	March, 1918 (incorporated in December, 1935)
Net Sales ⁽¹⁾ :	7,303.0 billion yen
Number of employees ⁽¹⁾ :	293,742
Number of Consolidated Companies ⁽¹⁾ :	538 (including parent company)

⁽¹⁾ as of March 31, 2013

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

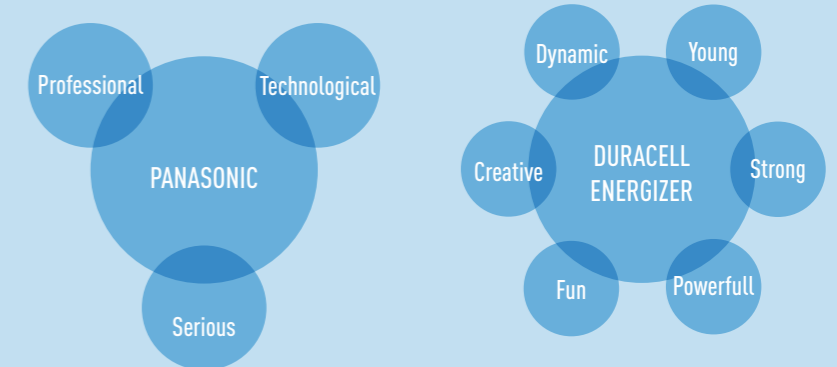
- ★ Panasonic Battery Factory
- ★ Panasonic European Distribution Centre



A powerful brand

- HIGH UMBRELLA BRAND AWARENESS ⁽¹⁾
64th position in the "Best Global Brands 2014"
- 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

⁽¹⁾ www.interbrand.com
⁽²⁾ PECE consumer/shopper researches



Also interested in other Panasonic solutions?

Please see our Panasonic Battery Catalogue 2015

Go to:

<http://www.panasonic-batteries.com/eu/catalogues>



eneloop

Ready to use Rechargeable Battery

Panasonic

Catalogue 2015-2016

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