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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.

Advantages of

Rechargeable
Batteries

Reusable,
recyclable and
durable.

Advantages of
Dry-cell
Batteries

Can be used right after purchasing and can be stored for a long period of time.

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



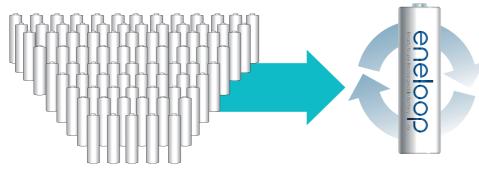


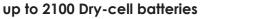
Benefits

Economic benefits

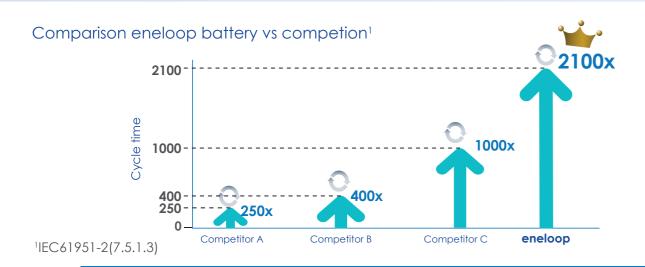
While the initial cost of rechargeable batteries is high, your investment in eneloop will be recovered after only a few recharging cycles and the long term savings are substantial. eneloop batteries can be recharged up to 2100 times.

Comparison eneloop vs dry-cell batteries







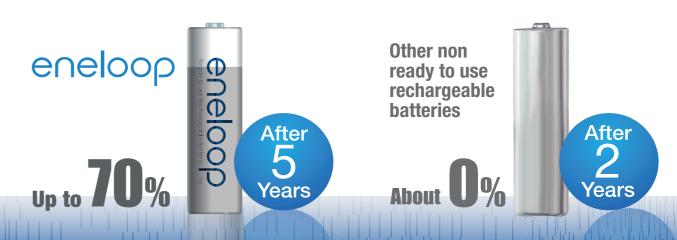


eneloop can be recharged up to 2100 times, which represents a huge economic advantage

Panasonic

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 5 years.

eneloop is ready-to-use even after 5 years* of storage

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



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

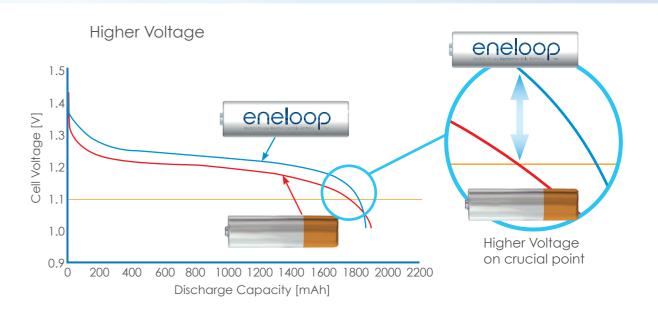


Through the Green Power Certification System, encloop is precharged by "green power" from photovoltaic generation



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.



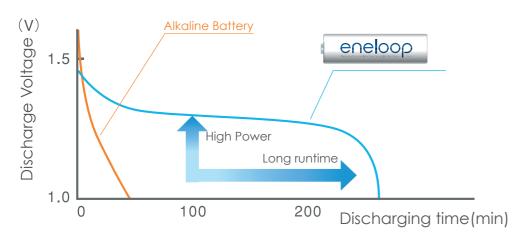
eneloop has higher usable capacity than standard batteries



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









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









¹Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use) ¹Panasonic 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	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	12	N/A
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	12	N/A
eneloop	AAA	750	5410853052708	BK-4MCCEC4BE	4 + case	8	12
eneloop	mix	1900/750	5410853052715	BK-KJMCCE44E	4AA+4AAA	12	N/A
eneloop	AA	1900	5410853052616	BK-3MCCE/BF1	1	500	N/A
eneloop	AAA	750	5410853052661	BK-4MCCE/BF1	1	500	N/A

Ready to use Rechargeable Battery TM

Panasonic

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.







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

APPLIANCES



Name	Min. Size Capacity (mAh)			Batteries/	Blisters/	Cartons/	
			CSU EAN	Global Code	CSU	Carton	Outer Carton
eneloop pro	AA	2450	5410853052579	BK-3HCCE/4BE	4	10	12
eneloop pro	AAA	900	5410853052609	BK-4HCCE/4BE	4	12	12
eneloop pro	AA	2450	5410853052562	BK-3HCCE/BF1	1	500	N/A
eneloop pro	AAA	900	5410853052593	BK-4HCCE/BF1	1	500	N/A



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eneloop lite



- Ideal for low-to-medium power consumption devices, such as DECT phones and remote controls.
- Rechargeable up to 3000 times: encloop lite is rechargeable up to 3000 times, which makes it even more economically and environment-friendly.



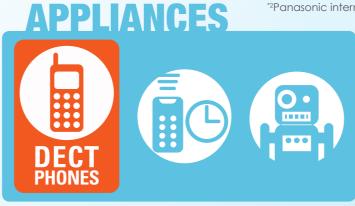


Capacity

550
mAh

after 5 years
Capacity
Remains
70*1

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



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

Rechargeable battery Information Chart

Rochargoable barrery information chair										
			eneloop BK3MCCE			eneloop pro BK3	IH 2450 mAh	er	e∩eloop l neloop lite BK3L	
Capacity (AA) *	*1		in. 1900 mAh to 2000 mAh			min. 2450 m/s			min. 950 mAh up to 1000 mA	
Recharge*2		up	to 2100 times			up to 500 time	es		up to 3000 time	es
Туре		Low Self-Di	scharge for Muli	i-Use	High Capa	city for High	Drain Devices	Basic Re	chargeable fo	r Daily Use
Recommended Equip	pment	Digital Cameras Beauty & Health	Games & Toys Torch Lights	Daily Use	DSLR Flash Radio Co		Torch Lights Wireless Devices	Games & Toys Tore		T 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 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 To Rendrigated Battery To MRT 2500 mAh 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

Panasonic

Alkaline battery

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



Cross reference

		AA	
	Low	Middle	High
Blister	Panasonic Engloop lite READY TO USE - FOR DAILY USE Engloop lite Engloop lite AAA EZTI FRE-CHANGED RICHARGEABLE	Panasonic COLORDO READY TO USE - FOR MULTI USE COLORDO	Panasonic Constitution Const
subbrand	eneloop lite	eneloop	eneloop Pro
min Capacity *1	950 mAh	1900 mAh	2450 mAh
cycle life *2	3000 times	2100 times	500 times
Low self discharge *1	up to 70% after 5 years	up to 70% after 5 years	up to 85% after 1 year

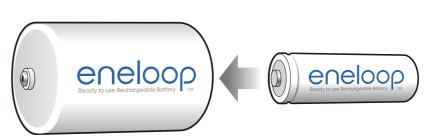
		AAA		
	Low	Middle	High	
Blister	Panasonic Panasonic	Panasonic COLORDO READY TO USE - FOR MULTI USE COLORDO	Panasonic Capacity Capac	
subbrand	eneloop lite	eneloop	eneloop Pro	
min Capacity *1	550 mAh	750 mAh	900 mAh	
cycle life *2	3000 times	2100 times	500 times	
Low self discharge *1	up to 70% after 5 years	up to 70% after 5 years	up to 85% after 1 year	

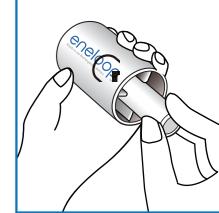
^{*1}Panasonic internal IEC61951-2(7.3.2) testing (varies according to conditions of use)
*2Panasonic internal testing IEC61951-2 (7.5.1.3)

Panasonic

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 C	CSU EAN	Global Code	Batteries/ Blister	Blisters/ Carton	Cartons/ Bundle
Spacer	D	5410853052838	BQ-B\$1E/2E	2	TBC	TBC
Spacer	С	5410853052845	BQ-BS2E/2E	2	TBC	TBC



Chargers



Basic charger – BQ CC18 – For occasional users

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

Item	Spec
Input	AC100-240V 50-60Hz
Input part Structure	Plug-in and attachment plug
Charging output	DC 2.4V AA 250mA x 2 / AAA 120mA x 2
Charging control	Timer cut
Indicator	LED x 2 Charging: ON, Fully charged: OFF
Charger battery	AA x 2, 4 / AAA x 2, 4 cells
Charging time	AA: Approx 10 hours AAA: Approx 8 hours
Charger size (cm) (W x H x D)	6,5 x 10,5 x 7,5
Weight	87 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 1.2V AA 300mA x 4 / AAA 150mA x 4
Charging control	TΔ /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	91 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)

Panasonic

BQ-CC16

SMART & QUICK

Ni-MH

Carried Used all Over the Wella (100 2 10 V)						
Item	Spec					
Input	AC100-240V 50-60Hz					
Input part Structure	Plug in and attachment plug					
Charging output	DC1.5 V 550mA×4/275mA×4					
Charging control	Smart Charge ¹ /-ΔV /Timer					
Indicator	LED x 2 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	97 g					
Case color	white					

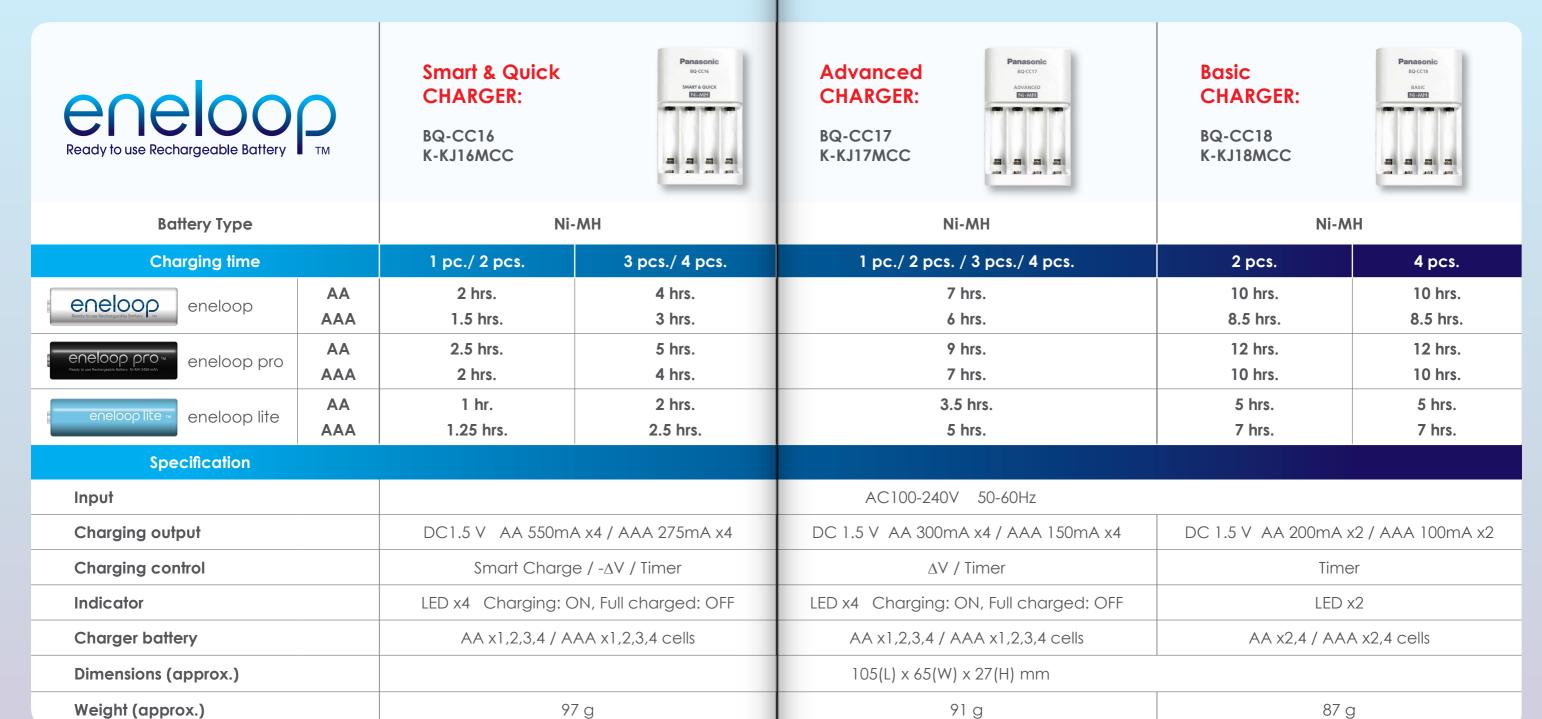
'This charger has "Smart Charge" function which checks voltage and temperature of battery automatically. Thanks to Smart Charge funcion, it saves time of charging and loss of energy & money.

				Min.			Batteries/	Blisters/	
Rank	Name	Plug	Battery	Size	Capacity (mAh)	CSU EAN	Global Code	Charger	Carton
High	CC16	EU	eneloop pro	AA	2 450	5410853052265	K-KJ16HCC40E	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	CC18	EU	N/A	N/A	N/A	5410853052302	BQ-CC18H	N/A	8
Low	CC18	EU	eneloop	AA	1 900	5410853052319	K-KJ18MCC40E	4	8
Low	CC18	EU	eneloop	AAA	750	5410853052326	K-KJ18MCC04E	4	8
Low	CC18	UK	eneloop	AA	1 900	5410853052333	K-KJ18MCC40U	4	8





Charger Information Chart



Panasonic



Other solutions

High Capacity

- With its high capacity, our high capacity rechargeable battery is the ideal rechargeable battery for high drain appliances
- Excellent price versus quality ratio

<u>APPLIANCES</u>















"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/
				0.0000.0000	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

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-3HCCE	AA	Rechargeable Ni-MH Battery	1,2 V	2450	50,4	14,5	30
BK-4HCCE	AAA	Rechargeable Ni-MH Battery	1,2 V	900	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
BK-4LCCE	AAA	Ni-MH Battery 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	С	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)
DIV QUICAE	l 44	Deckenselle	101/	0500	F0 /	1/ 5	00
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





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: President: Foundation: Panasonic Corporation Inc. Osaka - Japan Kazuhiro Tsuqa

Foundation: Net Sales^[1]: March, 1918 (incorporated in December, 1935)

7,303.0 billion yen 293,742

Number of employees⁽¹⁾: Number of Consolidated Companies⁽¹⁾:

538 (including parent company)

(1) as of March 31, 201

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 region
- 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

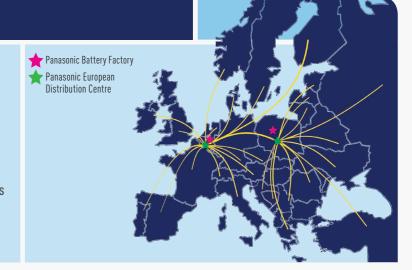
• LOCAL MANUFACTURING

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]
 65th position in the "Best Global Brands
 2012"
- 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 researche





Also interested in other Panasonic solutions?

Please see our Panasonic Battery Catalogue 2013 PANASONIC BATTERY

PANASONIC BAT

Go to:

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





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