

From Japan to the world.

## Further popularizing a recycling lifestyle. eneloop batteries that change the future.

eneloop — The next generation of environmentally friendly batteries favored by over 60 countries\* around the world, it proposes a new lifestyle shifting from 'Disposable' to 'Reusable'. Change the future of our environment by changing your battery. \*as of Aug 2010



### 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 1,500\*1 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.

- \* 1: A guideline for battery life based on IEC61951-2 : 2003(7.4.1.1)
- \* 1500 cycle times is available for eneloop AA & AAA batteries

### Low Temperature Operation

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. This condition is not subjected to the gadget.

### Recharge your batteries anytime

Conventional rechargeable batteries have the "memory effect" characteristic whereby recharging before the energy is completely used up will reduce the battery usage time. eneloop batteries are not adversely affected by "memory effect" during normal usage.

### Long Storage Life

While normal rechargeable batteries lose their charge over time, SANYO's eneloop technology enables these batteries to keep 75% of their charge up to 3 years.

No more constant recharging. eneloop can be left in your digital camera or flash light and will be ready to use at its optimal charge level.

#### AFTER

- 1 Year About **85%**
- 2 Years About **80%**
- 3 Years About **75%**



#### AFTER

- 1 Year About **50%**
- 2 Years About **0%**

Results of a test made by leaving the battery at an ambient temperature of 20°C (self discharging condition: 740mA (EV-1.0V). Above comparison made with SANYO nickel metal hydride battery (2500mAh) and eneloop AA battery.

## Rechargeable Battery VS Dry-cell Battery

### 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

Ready to use battery with all the advantages of rechargeable and dry-cell batteries

## Take 4x More Pictures!

Results from our tests have shown that a typical digital camera can take 4x more pictures when using eneloop than regular dry-cell batteries. eneloop can also be used optimally in a variety of devices including toys, MP3 players, electric shavers, portable video game players, etc.



Comparison of Digital Camera shots using eneloop battery & dry-cell battery

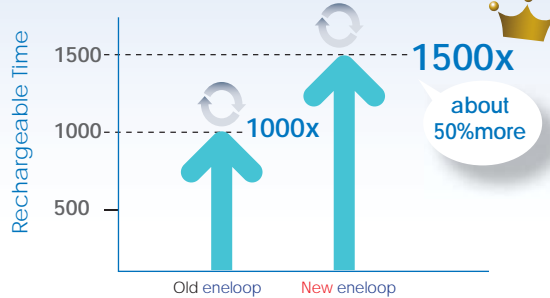
\* Camera: SANYO DSC-S4, Temperature: 77°F, Flash=once every 3 shots  
Shots=every 20 seconds, LCD: On all the time

\* Above comparison results is based on eneloop AA batteries.

## Cost Savings

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.

### Comparison with old & new eneloop battery



## Ready To Use Rechargeable

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

eneloop batteries can be recharged at any stage of usage, eneloop batteries can be recharged up to 1500 times.

eneloop:  
Rechargeable up to 1,500 times.

### Dry-Cell Batteries



eneloop Recommended Usage

- Can take more photos
- Can use for a long period of time
- Can use for longer hours
- Can use as back up power

A guide-line for battery life based on IEC61951-2:2003(7.4.1.1)

# eneloop universe

'eneloop' is a product that proposes a new lifestyle - one without disposing of batteries. Once charged, it can be used repeatedly and once used completely, it can be recycled.

To promote this kind of new battery lifestyle, SANYO developed a world first rechargeable battery that can be used like a dry-cell battery - 'immediately after purchase' .

SANYO is simultaneously pursuing solutions for a comfortable living and consideration for the environment and would continue providing 'Global Energy Solutions' and 'LOHAS (Lifestyles of Health and Sustainability) Solutions' .



eneloop



eneloop  
mobile booster



eneloop  
kairo



eneloop  
anka



eneloop  
solar charger



eneloop  
kairo

## 2006



### GOOD DESIGN AWARD 2006

GOLD PRIZE

**Organized by:**

Japan Industrial Design  
Promotion Organization (JIDPO)

**Winning product:** eneloop battery

<http://www.g-mark.org/library/2006/>

### THE 16 NIKKEI GLOBAL ENVIRONMENTAL TECHNOLOGY AWARD 2006

This award was commended to  
the excellent result of Research,  
Technology Development for  
Global Environmental Protection.

**Organized by:**

Nikkei Inc.

**Winning product:**

eneloop battery



### THE 3RD ECO PRODUCTS AWARD 2006

**Organized by:**

Eco products award steering  
committee in Japan

**Winning product:**

eneloop battery

<http://www.gef.or.jp/ecoproducts/>

## 2007



### THE 2ND LOHAS DESIGN AWARD 2007

GRAND PRIZE of Products Section

**Organized by:**

Lohas Club

**Winning product:**

eneloop battery

<http://www.lohasclub.jp/da2007/>



### GOOD DESIGN AWARD 2007

GOLD PRIZE

**Organized by:**

Japan Industrial Design  
Promotion Organization (JIDPO)

**Winning product:**

eneloop battery,  
Universe products

<http://www.g-mark.org/library/2007/>

[best15/07A02003-6.html](http://www.g-mark.org/library/2007/best15/07A02003-6.html)

# 2008



## IF DESIGN AWARD 2008

### Organized by:

IF (International Forum Design Hannover GMBH)

### Winning products:

eneloop battery,  
eneloop Solar Charger  
[http://www.ifdesign.de/awards\\_product\\_index\\_e/](http://www.ifdesign.de/awards_product_index_e/)



## THE 3RD LOHAS DESIGN AWARD 2008

GRAND PRIZE of Products Section

### Organized by:

Lohas Club

### Winning product:

eneloop battery,  
Universe products

<http://www.lohasclub.jp/da2008/>



eneloop solar light



## GOOD DESIGN AWARD 2008

### Organized by:

Japan Industrial Design Promotion Organization (JIDPO)

### Winning products :

eneloop Battery C & D Size,  
eneloop Universal Charger,  
Solar Light, eneloop Soft Warmer, eneloop Kiro (KIR-SL1S), eneloop Air Freshener & Portable Power

<http://www.g-mark.org/library/2008/index.html>

## THE 15TH TASUKARIMASHITA AWARD

### Organized by:

Living Newspaper chosen from Contest of Lifestyle Magazine published 8.5 million copies, 57 areas in Japan

### Winning product:

eneloop universal charger

[http://www.lcomi.ne.jp/pickup/15th\\_tasukari/01.html](http://www.lcomi.ne.jp/pickup/15th_tasukari/01.html)



eneloop air fresher



eneloop soft warmer

eneloop universal charger

# 2009



## IF DESIGN AWARD 2009

### Organized by:

IF (International Forum Design Hannover GMBH)

### Winning products:

eneloop Solar Light (Gold prize), eneloop Kiro, eneloop Universal Charger

[http://www.ifdesign.de/awards\\_product\\_index\\_e/](http://www.ifdesign.de/awards_product_index_e/)



## GOOD DESIGN AWARD 2009

### Organized by:

Japan Industrial Design Promotion Organization (JIDPO)

**Winning products:** eneloop Soft Warmer (ENW0SW3S), eneloop Lantern (ENL1EX)

<http://www.g-mark.org/library/2009/index.html>



## THE 6TH ECO PRODUCTS AWARD 2009

### Organized by:

Eco Products Award Steering Committee in Japan

### Winning products:

eneloop Bike  
<http://panasonic.co.jp/sanyo/news/2009/11/24-1.html>

## AUSTRALIA INTERNATIONAL DESIGN AWARD

### Organized by:

Standard Australia

**Winning products:** eneloop battery (HR-3UTG/HR-4UTG)

<http://panasonic.co.jp/sanyo/news/2009/06/01-1.html>



eneloop portable solar

# 2010



## IF DESIGN AWARD 2010

### Organized by:

IF (International Forum Design Hannover GMBH)

### Winning products:

eneloop Portable Solar (Gold prize), eneloop Lamp (IF products prize)

[http://www.ifdesign.de/awards\\_product\\_index\\_e/](http://www.ifdesign.de/awards_product_index_e/)



## ASIA DESIGN AWARD 2010

### Organized by:

Hong Kong Design Center

### Winning products:

eneloop Universe products

<http://dfaaward.com/2011/pages/index>



eneloop lamp



eneloop Lantern

## SANYO continues to educate the youths in Singapore through its successful school programme – Eco Education Programme (EEP)

The Eco Education Programme (EEP), organised by SANYO Energy (Singapore) Corp. Pte. Ltd, is a fully-funded 60-minute programme targeted at educating students at the Primary 5 Level on the importance of environmental protection through hands-on participation in interesting experiments.



This year will be the fifth year the EEP is conducted since it started in Singapore in 2007. To date, SANYO has reached out to more than 30 primary schools and thousands of students to spread the message on the importance of a sustainable eco-system.

The programme was first introduced in 2005 in Japan and has since been extended to 56,000 students in more than 300 elementary schools in Singapore, China, Germany, France and Thailand. It is part of SANYO's initiative to spread its vision on environmental conservation to tomorrow's generation.

The EEP is endorsed by the Japanese Embassy and the Singapore Environment Council.

NEW

# eneloop glitter



## Sparkle Up Your Life

This limited edition pack includes 8 different glitter colours. Different colour for each day, to suit your taste and liking. Add sparkle to your life with eneloop glitter now!



8HR-3UTGA-SECP-GL

Capacity:

TYP.2000 mAh Min.1900mAh

Quantity : Inner carton - 10 pks

Outer carton - 40 pks

Net Weight : 10.0 kg Gross Weight : 11.0 kg

Measurement (mm) : L385 x W275 x H320

Barcode no. : 4 994334 28618 5

Origin: Japan



# eneloop mobile booster

There is no better way to power-up while you are constantly

**On the Go,  
Anytime, Anywhere.**



eneloop



**5000mAh**

An internal lithium-ion battery



CHARGING.....

# eneloop mobile booster

## Powerful Green Energy

Build-in High Capacity **5000mAh** Lithium-ion Battery



## Lightweight & Compact

135g / W62XH70XD22mm

### Battery life indication

Bright Light	Fully charged
Weak Light	80% - 50% Charged
3 interval blinks	less than 50% charged

## 2 Ways of Recharging

Able to charge from AC Adapter & USB terminal

### Input Charging:

- DC 5V round pin input jack
- USB-mini 500mAh PC input

### Charging Time

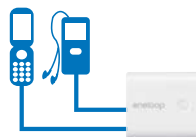
	USB	AC
KBC-L2BSP-S	14 hrs	7 hrs

### Output Charging:

- 2 slots USB (max. 500mAh/slot)

### Charging Time:

- 4hrs/port
- 2hrs on 1 port charging only@max. 1A



## KBC-L2BSP-S

Booster with two USB power ports powered by a special high capacity Li-ion battery.

### Quantity :

Inner carton - N.A.

Outer carton - 10 pks

**Net Weight** : 2.20 kg

**Gross Weight** : 3.20 kg

**Measurement (mm)** :

L359 x W301 x H154

**Barcode no. :**

4 994334 24645 5

**Origin:** China



## Portable Reserved Batteries!

For USB Compatible Mobile Phones & Electronic Devices

Please check before purchase as the cable used differs according to the mobile phone company or mobile phone model. Depending on the mobile phone terminal, the battery may not be able to be recharged.



### Compatibility Information:

iphone/ipod  
ipad  
Blackberry Curve/Bold/Storm  
HTC Desire/Hero  
Sony Ericsson Arc/Xperia/PSP  
Nokia N7  
Motorola Backflip/Milestone  
Samsung Galaxy S  
LG GD580  
Nintendo DS

### No. of charges base on phone cell of about 1100-1400mAh capacity

2 charges  
max 40%  
1.5 charges  
1.5 charges  
1.5 charges  
< 1 charge  
< 1 charge  
< 1 charge  
< 1 charge  
< 1 charge

Above information based on internal testings. Results may vary.

# AA size Batteries

Capacity: TYP.2000 mAh Min.1900mAh

| Ready to Use Rechargeable Ni-MH Battery |

## 2HR-3UTG-SECP-2



Size: AA

### 2pcs Clamshell Pack

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 40 pks  
**Net Weight :** 3.00 kg  
**Gross Weight :** 3.50 kg  
**Measurement (mm) :**  
L381 x W365 x H123  
**Barcode no. :**  
4 994334 27903 3  
**Origin:** Japan

## 4HR-3UTG-SECP-2



Size: AA

### 4pcs Clamshell Pack

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 40 pks  
**Net Weight :** 5.00 kg  
**Gross Weight :** 5.50 kg  
**Measurement (mm) :**  
L381 x W365 x H123  
**Barcode no. :**  
4 994334 27904 0  
**Origin:** Japan

## 12HR-3UTG-SECP-2



Size: AA

### 12pcs Clamshell Pack

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 40 pks  
**Net Weight :** 20.0 kg  
**Gross Weight :** 21.0 kg  
**Measurement (mm) :**  
L465 x W355 x H285  
**Barcode no. :**  
4 994334 27907 1  
**Origin:** Japan

## 2HR-3UTG-SECP-BP



Size: AA

### 2pcs Blister Pack

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 40 pks  
**Net Weight :** 2.65 kg  
**Gross Weight :** 3.60 kg  
**Measurement (mm) :**  
L350 x W310 x H120  
**Barcode no. :**  
4 994334 27899 9  
**Origin:** Japan

## 4HR-3UTG-SECP-BP



Size: AA

### 4pcs Blister Pack

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 40 pks  
**Net Weight :** 4.48 kg  
**Gross Weight :** 5.74 kg  
**Measurement (mm) :**  
L350 x W310 x H120  
**Barcode no. :**  
4 994334 27900 2  
**Origin:** Japan

# C&D size Adapters



**Capacity:**  
TYP.2000mAh  
Min.1900mAh

## NCS-TG1A-2BP

2pcs Blister with Adapter D Size + 2pcs AA Size Battery Pack



D size

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 80 pks  
**Net Weight :** 7.58 kg  
**Gross Weight :** 8.40 kg  
**Measurement (mm) :**  
L375 x W329 x H244  
**Barcode no. :**  
4 994334 23565 7  
**Origin:** China (Adapter)  
Japan (Battery)

## NCS-TG2A-2BP

2pcs Blister with Adapter C Size + 2pcs AA Size Battery Pack



C size

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 80 pks  
**Net Weight :** 6.35 kg  
**Gross Weight :** 7.15 kg  
**Measurement (mm) :**  
L311 x W308 x H244  
**Barcode no. :**  
4 994334 23564 0  
**Origin:** China (Adapter)  
Japan (Battery)

# AAA size Batteries

Capacity: TYP.800 mAh Min.750mAh

## 2HR-4UTG-SECP-2

2pcs Clamshell Pack



**Size:** AAA  
**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 40 pks

**Net Weight :** 1.50 kg  
**Gross Weight :** 2.00 kg  
**Measurement (mm) :**  
L381 x W327 x H123  
**Barcode no. :**  
4 994334 27905 7  
**Origin:** Japan

## 4HR-4UTG-SECP-2

4pcs Clamshell Pack



**Size:** AAA  
**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 40 pks

**Net Weight :** 2.50 kg  
**Gross Weight :** 3.00 kg  
**Measurement (mm) :**  
L381 x W327 x H123  
**Barcode no. :**  
4 994334 27906 4  
**Origin:** Japan

## 2HR-4UTG-SECP-BP

2pcs Blister Pack



**Size:** AAA  
**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 40 pks

**Net Weight :** 1.24 kg  
**Gross Weight :** 2.48 kg  
**Measurement (mm) :**  
L290 x W240 x H130  
**Barcode no. :**  
4 994334 27901 9  
**Origin:** Japan

## 4HR-4UTG-SECP-BP

4pcs Blister Pack



**Size:** AAA  
**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 40 pks

**Net Weight :** 2.24 kg  
**Gross Weight :** 3.54 kg  
**Measurement (mm) :**  
L290 x W240 x H130  
**Barcode no. :**  
4 994334 27902 6  
**Origin:** Japan

# eneloop lite

RECHARGE  
2000x

**Size:** AA Capacity: TYP.1000 mAh Min.950mAh

## 2HR-3UO-SECP-C

2pcs AA Blister Pack



**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 80 pks

**Net Weight :** 2.70 kg  
**Gross Weight :** 3.60 kg  
**Measurement (mm) :**  
L350 x W330x H150  
**Barcode no. :** 4 994334 25993 6  
**Origin:** Japan

## 4HR-3UO-SECP-C

4pcs AA Blister Pack



**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 80 pks

**Net Weight :** 6.40 kg  
**Gross Weight :** 7.00 kg  
**Measurement (mm) :**  
L350 x W330x H150  
**Barcode no. :** 4 994334 25994 3  
**Origin:** Japan

For Light Household Use

**Size:** AAA Capacity: TYP.600 mAh Min.550mAh

## 2HR-4UQ-SECP-C

2pcs AAA Blister Pack



**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 80 pks

**Net Weight :** 2.80 kg  
**Gross Weight :** 3.00 kg  
**Measurement (mm) :**  
L300 x W280x H150  
**Barcode no. :** 4 994334 25995 0  
**Origin:** Japan

## 4HR-4UQ-SECP-C

4pcs AAA Blister Pack



**Quantity :**  
Inner carton  
- 10 pks  
Outer carton  
- 80 pks

**Net Weight :** 4.80 kg  
**Gross Weight :** 5.00 kg  
**Measurement (mm) :**  
L300 x W280 x H150  
**Barcode no. :** 4 994334 25992 9  
**Origin:** Japan

# QUICK CHARGER

## NC-CFR06ER



# Family Pack

with  
**2hr**  
Quick  
Charger

MQR06 2hr Quick Charger x1  
D & C size eneloop Adapter x 2 each  
AA & AAA eneloop Battery x 4 each

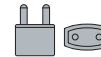
**Quantity :** Inner carton - N.A Outer carton - 5 pks  
**Net Weight :** 3.70 kg **Gross Weight :** 4.20 kg  
**Measurement (mm) :** L319 x W237 x H272  
**Barcode no. :** 4 994334 27371 0  
**Origin:** China (Charger & Adapter), Japan (Battery)

## NC-MQR06SP20A-4S

with 4pcs of eneloop AA Pack



**2hr**  
Quick  
Charger



Quick Charge Auto Voltage Ni-MH

**Quantity :** Inner carton - N.A Outer carton - 8 pks  
**Net Weight :** 2.60 kg **Gross Weight :** 3.60 kg  
**Measurement (mm) :** L474 x W294 x H141  
**Barcode no. :** 4 994334 27357 4  
**Origin:** China (Charger), Japan (Battery)

Double/Triple Speed Quick charging works when charging AA or AAA as follows:

**Double Speed Quick Charging :**



Two batteries at each end per charge.

**Triple Speed Quick Charging :**



One battery at either end per charge.

# STANDARD CHARGER

## NC-MQN09SP20A-2S

with 2pcs of eneloop AA Pack



6hr  
Charger



### Quantity :

Inner carton - N.A Outer carton - 8 pks  
**Net Weight :** 2.00 kg **Gross Weight :** 2.10 kg  
**Measurement (mm) :** L500 x W341 x H146  
**Barcode no. :** 4 994334 27355 0  
**Origin:** China (Charger), Japan (Battery)



Insert blue illumination chip

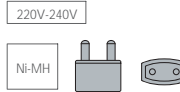
Blue illumination lights up while charging

## NC-MQN04ENSSP20A-4S

with 4pcs of eneloop AA Pack



Standard  
Charger



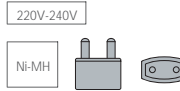
**Quantity :** Inner carton - N.A  
 Outer carton - 8 pks  
**Net Weight :** 2.94 kg  
**Gross Weight :** 3.94 kg  
**Measurement (mm) :**  
 L517 x W375 x H135  
**Barcode no. :** 4 994334 28295 8  
**Origin:** China (Charger), Japan (Battery)

## NC-MQN04ENSSP20A-2S

with 2pcs of eneloop AA Pack



Standard  
Charger



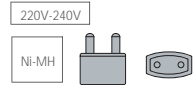
**Quantity :** Inner carton - N.A  
 Outer carton - 8 pks  
**Net Weight :** 2.48 kg  
**Gross Weight :** 3.60 kg  
**Measurement (mm) :**  
 L517 x W375 x H135  
**Barcode no. :** 4 994334 26944 7  
**Origin:** China (Charger), Japan (Battery)

## NC-MQN04ENSSP10-2S

with 2pcs AA eneloop lite AA pack



eneloop  
lite  
Charger



**Quantity :** Inner carton - N.A  
 Outer carton - 8 pks  
**Net Weight :** 2.30 kg  
**Gross Weight :** 3.30 kg  
**Measurement (mm) :**  
 L517 x W375 x H135  
**Barcode no. :**  
 4 994334 27267 6  
**Origin:** China (Charger),  
 Japan (Battery)

# Charging Guide

## CHARGER Quick-Reference Chart



Type Of Charger				FAMILY PACK	2HR QUICK	6HR	
Models				NC-CFR06ER	NC-MQR06SP20A-4S	NC-MQN09SP20A-2S	
Number and Type of cells included Charging Time: eneloop ready-to-use re-chargeable batteries(Ni-MH)	AA	2000mAh	1-2 pcs	1 pc 75 mins / 2pc 110 mins	1 pc 75 mins / 2pc 110 mins	2 or 4 AA: 7hrs	
			3-4 pcs	1-4 pcs 220 mins	1-4 pcs 220 mins		
	AAA	800mAh	1-2 pcs	1 pc 65 mins / 2pc 100 mins	1 pc 65 mins / 2pc 100 mins	2 or 4 AAA: 6hrs	
			3-4 pcs	1-4 pcs 200 mins	1-4 pcs 200 mins		
	Ni-MH	AA	2700mAh	1-2 pcs	1 pc 100 mins / 2pc 150 mins	1 pc 100 mins / 2pc 150 mins	2 or 4 AA: 10hrs
				3-4 pcs	1-4 pcs 300 mins	1-4 pcs 300 mins	
	AA	2500mAh	1-2 pcs	1 pc 90 mins / 2pc 135 mins	1 pc 90 mins / 2pc 135 mins	-	
			3-4 pcs	1-4 pcs 270 mins	1-4 pcs 270 mins	-	
Special features/ safety control	1. Individual charging control			<input type="radio"/>	<input type="radio"/>	-	
	2. Timer control			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3. Peak voltage control			<input type="radio"/>	<input type="radio"/>	-	
	4. Minus delta voltage detection			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5. Temperature control/protection			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	6. Alkaline battery detection			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	7. Short circuited cells detection			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Charging Type:				Ni-MH	Ni-MH	Ni-MH	
Charging Indication	Charging process begins			Blue light is on	Blue light is on	Blue light is on	
	Charging process ends			Blue light is off	Blue light is off	Blue light is off	
Charging Characteristics	Individual Charging			<input type="radio"/>	<input type="radio"/>	-	
	Charge in 2 or 4 pcs of batteries			-	-	<input type="radio"/>	
Voltage				100V-240V	100V-240V	100V-240V	

# Charging Guide

## CHARGER Quick-Reference Chart



Type Of Charger				STANDARD	STANDARD	MOBILE BOOSTER
Models				NC-MQN04ENSSP20A-2S NC-MQN04ENSSP20A-4S	NC-MQN04ENSSP10-2S eneloop lite	KBC-L2BSP-S
Number and Type of cells included Charging Time: eneloop ready-to-use re-chargeable batteries(Ni-MH)	AA	2000mAH	1-2 pcs 3-4 pcs	2 or 4 AA : 10hrs	2 or 4 AA: 10 hrs	-
	AAA	800mAH	1-2 pcs 3-4 pcs	2 or 4 AAA : 8hrs	2 or 4 AAA: 8 hrs	7hrs (AC charging), 14hrs (USB charging)
Ni-MH	AA	2700mAH	1-2 pcs 3-4 pcs	-	2 or 4 AA eneloop lite: 5 hrs	-
	AA	2500mAH	1-2 pcs 3-4 pcs	-	2 or 4 AAA eneloop lite: 6 hrs	-
Special features/ safety control	1. Individual charging control 2. Timer control 3. Peak voltage control 4. Minus delta voltage detection 5. Temperature control/protection 6. Alkaline battery detection 7. Short circuited cells detection			- ○ - - - - -	- ○ - - - - -	NA
Charging Type:				Ni-MH	Ni-MH	Li-ion
Charging Indication	Charging process begins			Green light is on	Green light is on	Blue light blinking per 1.5secs
	Charging process ends			Green light is off	Green light is off	Blue light remain lighted
Charging Characteristics	Individual Charging			-	-	NA
	Charge in 2 or 4 pcs of batteries			○	○	NA
Voltage				220V-240V	220V-240V	100V-240V



High Capacity Ready to Use Ni-MH Battery

## 4HR-3UWX-SECP-BP

4pcs AA Blister Pack

Quantity : Inner carton - 10 pks

Outer carton - 40 pks

Net Weight : 4.97 kg Gross Weight : 5.52 kg

Measurement (mm) : L351 x W322 x H143

Barcode no. : 4 994334 28601 7

Origin: Japan (Battery)



# HIGH CAPACITY Ni-MH Batteries

| Rechargeable |

# CHARGER

## Ni-MH 2700

AA Size

## Ni-MH 2500

AA Size

## Ni-MH 1000

AAA Size

## ECO

### HR-3U-2BP-2700



2pcs Blister Pack  
Size: AA

**Quantity :**

Inner carton - 10 pks  
Outer carton - 120 pks

**Net Weight :** 7.85 kg

**Gross Weight :** 8.35 kg

**Measurement (mm) :**

L266 x W261 x H208

**Barcode no. :**

4 994334 21740 0

**Origin:** Japan

### HR-3U-4BP-2700



4pcs Blister Pack  
Size: AA

**Quantity :**

Inner carton - 10 pks  
Outer carton - 160 pks

**Net Weight :** 19.47 kg

**Gross Weight :** 21.50 kg

**Measurement (mm) :**

L358 x W290 x H200

**Barcode no. :**

4 994334 21741 7

**Origin:** Japan

### HR-3U-2BP-2500(N)



2pcs Blister Pack  
Size: AA

**Quantity :**

Inner carton - 10 pks  
Outer carton - 120 pks

**Net Weight :** 7.85 kg

**Gross Weight :** 8.35 kg

**Measurement (mm) :**

L266 x W261 x H208

**Barcode no. :**

4 994334 19761 0

**Origin:** Japan

### HR-4U-2BP-1000



2pcs Blister Pack  
Size: AAA

**Quantity :**

Inner carton - 10 pks  
Outer carton - 120 pks

**Net Weight :** 3.90 kg

**Gross Weight :** 4.23 kg

**Measurement (mm) :**

L226 x W221 x H208

**Barcode no. :**

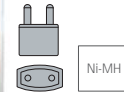
4 994334 21742 4

**Origin:** Japan

### NC-MQN04ESSP27-2S



220V-240V



Size: AA

Standard Charger +  
2pcs of 2700 mAh batteries

**Quantity :**

Inner carton - N.A.  
Outer carton - 8 pks

**Net Weight :** 2.66 kg

**Gross Weight :** 3.66 kg

**Measurement (mm) :**

L517 x W375 x H135

**Barcode no. :**

4 994334 26945 4

**Origin:** China (Charger),  
Japan (Battery)

## What is 'memory effect'?

When Ni-Cd or Ni-MH batteries are not fully discharged between charge cycles, 'memory effect' happens. This reduces the capacity of the battery thereby affect the length of usage per charge.

## Maintain a full charge

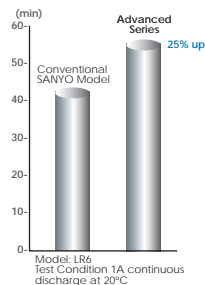
Our chargers are equipped with a function to maintain batteries at a fully charged stage when left plugged in. This will ensure that the immediate usage of batteries at their optimal charge level.

## “Advanced Alkaline” Series Significant improvements in storage capability!

AA/AAA batteries



Comparison of battery performance in continuous use.



- By incorporating the latest new materials and sophisticated technology, this series delivers 25% more power compared to conventional SANYO alkaline batteries. The durable, long-lasting capability makes the “Advanced Alkaline” series particularly effective for information and audio/video equipment requiring high current and continuous electrical discharge.
- Shows minimal deterioration in battery performance even after long-term storage (less than 1% deterioration after two years of storage).
- For enhanced ecology, these batteries are 100% mercury/lead free.

### High shock-resistant when carried around!

- Stable performance even in environment where there is harsh usage of mobile equipments.
- The latest unique anode gel technology developed by the company prevents voltage reduction.

### Environmentally friendly measures

- zero usage of mercury for batteries
- use of PET (no PVC) for external packaging labels for batteries
- zero usage of lead for alkaline batteries (AA, AAA battery)

We continue in our efforts to protect the environment



#### LR20/2S

Size: D

2pcs Shrink Pack

Quantity :

Inner carton - 5 pks

Outer carton - 60 pks

Net Weight : 16.80 kg

Gross Weight : 18.00 kg

Measurement (mm) :

L318 x W232 x H206

Barcode no. :

4 994334 13803 3

Origin: Japan



#### LR14/2S

Size: C

2pcs Shrink Pack

Quantity :

Inner carton - 5 pks

Outer carton - 120 pks

Net Weight : 17.00 kg

Gross Weight : 18.00 kg

Measurement (mm) :

L315 x W315 x H220

Barcode no. :

4 994334 13805 7

Origin: Japan



#### LR6/2S(A)

Size: AA

2pcs Shrink Pack

Quantity :

Inner carton - 20 pks

Outer carton - 100 pks

Net Weight : 4.50 kg

Gross Weight : 5.00 kg

Measurement (mm) :

L282 x W153 x H85

Barcode no. :

4 994334 28264 4

Origin: Indonesia



#### LR03/2S(A)

Size: AAA

2pcs Shrink Pack

Quantity :

Inner carton - 250 pks

Outer carton - 500 pks

Net Weight : 11.00 kg

Gross Weight : 12.00 kg

Measurement (mm) :

L262 x W302 x H134

Barcode no. :

4 994334 28265 1

Origin: Indonesia

## LR20/2B(A)



Size: D

2pcs Blister Pack

Quantity :

Inner carton - 10 pks

Outer carton - 60 pks

Net Weight : 16.98 kg

Gross Weight : 17.00 kg

Measurement (mm) :

L372 x W360 x H227

Barcode no. :

4 994334 13802 6

Origin: Japan

## LR14/2B(A)



Size: C

2pcs Blister Pack

Quantity :

Inner carton - 10 pks

Outer carton - 120 pks

Net Weight : 17.50 kg

Gross Weight : 18.50 kg

Measurement (mm) :

L320 x W315 x H325

Barcode no. :

4 994334 13804 0

Origin: Japan

## LR6/2B(A)



Size: AA

2pcs Blister Pack

Quantity :

Inner carton - 10 pks

Outer carton - 120 pks

Net Weight : 6.80 kg

Gross Weight : 7.00 kg

Measurement (mm) :

L255 x W251 x H179

Barcode no. :

4 994334 17557 1

Origin: Indonesia

## LR6/4B(A)



Size: AA

4pcs Blister Pack

Quantity :

Inner carton - 20 pks

Outer carton - 160 pks

Net Weight : 14.72 kg

Gross Weight : 17.00 kg

Measurement (mm) :

L330 x W292 x H185

Barcode no. :

4 994334 17558 8

Origin: Indonesia



## LR03/2B(A)

2pcs Blister Pack

Size: AAA

Quantity :

Inner carton - 10 pks

Outer carton - 120 pks

Net Weight : 3.50 kg

Gross Weight : 4.00 kg

Measurement (mm) : L253 x W195 x H181

Barcode no. : 4 994334 17560 1

Origin: Indonesia



## LR03/4B(A)

4pcs Blister Pack

Size: AAA

Quantity :

Inner carton - 20 pks

Outer carton - 360 pks

Net Weight : 18.70 kg

Gross Weight : 19.70 kg

Measurement (mm) : L386 x W381 x H185

Barcode no. : 4 994334 17561 8

Origin: Indonesia



## 6LF22/1B

1pc Blister Pack

Size: 9V

Quantity :

Inner carton - 12 pks

Outer carton - 288 pks

Net Weight : 17.00 kg

Gross Weight : 17.30 kg

Measurement (mm) : L547 x W265 x H293

Barcode no. : 4 994334 13030 3

Origin: Malaysia

### SSP-HC2D ( I )



2pcs Blister Pack  
Size: D

Quantity :  
Inner carton - 24 pks  
Outer carton - 72 pks  
Net Weight : 13.40 kg  
Gross Weight : 14.80 kg

Measurement (mm) : L510 x W195 x H290  
Barcode no. : 4 994334 21773 8  
Origin: Indonesia

### SSP-HC2C ( I )



2pcs Blister Pack  
Size: C

Quantity :  
Inner carton - 24 pks  
Outer carton - 144 pks  
Net Weight : 13.20 kg  
Gross Weight : 15.40 kg

Measurement (mm) : L360 x W295 x H292  
Barcode no. : 4 994334 21774 5  
Origin: Indonesia

### SSP-HC9V



1pc Blister Pack  
Size: 9V

Quantity :  
Inner carton - 12 pks  
Outer carton - 48 pks  
Net Weight : 1.77 kg  
Gross Weight : 2.60 kg

Measurement (mm) : L282 x W243 x H124  
Barcode no. : 4 994334 22229 9  
Origin: China

### SSP-HC4AA



4pcs Blister Pack  
Size: AA

Quantity :  
Inner carton - 12 pks  
Outer carton - 48 pks  
Net Weight : 3.40 kg  
Gross Weight : 4.10 kg

Measurement (mm) : L225 x W156 x H231  
Barcode no. : 4 994334 21775 2  
Origin: China

### SSP-HC4AAA



4pc Blister Pack  
Size: AAA

Quantity :  
Inner carton - 12 pks  
Outer carton - 48 pks  
Net Weight : 1.70 kg  
Gross Weight : 2.30 kg

Measurement (mm) : L226 x W143 x H189  
Barcode no. : 4 994334 17365 2  
Origin: China

### SSP-HC2AAA



2pc Blister Pack  
Size: AAA

Quantity :  
Inner carton - 12 pks  
Outer carton - 48 pks  
Net Weight : 0.84 kg  
Gross Weight : 1.50 kg

Measurement (mm) : L226 x W143 x H189  
Barcode no. : 4 994334 22225 1  
Origin: China

### SSP-HC2D-2SP ( I )

2pcs Shrink Pack    Size: D



**Quantity :**  
Inner carton - 12 pks  
Outer carton - 144 pks  
**Net Weight :** 27.80 kg  
**Gross Weight :** 28.80 kg

**Measurement (mm) :** L417 x W282 x H206  
**Barcode no. :** 4 994334 28847 9  
**Origin:** Indonesia

### SSP-HC2C-2SP ( I )

2pcs Shrink Pack    Size: C



**Quantity :**  
Inner carton - 12 pks  
Outer carton - 144 pks  
**Net Weight :** 13.45 kg  
**Gross Weight :** 14.10 kg

**Measurement (mm) :** L322 x W215 x H174  
**Barcode no. :** 4 994334 28848 6  
**Origin:** Indonesia

### SSP-HC9V-1S-SP

1pc Shrink Pack    Size: 9V



**Quantity :**  
Inner carton - 100 pks  
Outer carton - 500 pks  
**Net Weight :** 18.75 kg  
**Gross Weight :** 20.10 kg

**Measurement (mm) :** L352 x W290 x H206  
**Barcode no. :** 4 994334 26507 4  
**Origin:** China

### SSP-HC2AA-2S-SP



2pcs Shrink Pack  
Size: AA

**Quantity :**  
Inner carton - 100 pks  
Outer carton - 500 pks  
**Net Weight :** 18.00 kg  
**Gross Weight :** 19.00 kg  
**Measurement (mm) :**  
L350 x W311 x H173  
**Barcode no. :** 4 994334 27359 8  
**Origin:** China

### SSP-HC4AA-4S-SP



4pcs Shrink Pack  
Size: AA

**Quantity :**  
Inner carton - 50 pks  
Outer carton - 250 pks  
**Net Weight :** 18.00 kg  
**Gross Weight :** 19.00 kg  
**Measurement (mm) :**  
L350 x W311 x H173  
**Barcode no. :** 4 994334 26503 6  
**Origin:** China

### SSP-HC2AAA-2S-SP



2pcs Shrink Pack  
Size: AAA

**Quantity :**  
Inner carton - 100 pks  
Outer carton - 500 pks  
**Net Weight :** 8.60 kg  
**Gross Weight :** 9.40 kg  
**Measurement (mm) :**  
L350 x W260 x H120  
**Barcode no. :** 4 994334 27300 0  
**Origin:** China

### SSP-HC4AAA-4S-SP



4pcs Shrink Pack  
Size: AAA

**Quantity :**  
Inner carton - 50 pks  
Outer carton - 250 pks  
**Net Weight :** 8.60 kg  
**Gross Weight :** 9.40 kg  
**Measurement (mm) :**  
L350 x W260 x H120  
**Barcode no. :** 4 994334 26505 0  
**Origin:** China

# MANGANESE DRY-CELL BATTERIES

Durable and easy-to-use Manganese batteries for a wide range of applications including heavy-duty uses.



## NEO SUPER

### SUM-1(N)



2pcs  
Shrink Pack  
Size: D

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 100 pks  
**Net Weight :** N.A.  
**Gross Weight :** 22.0 kg  
**Measurement (mm) :**  
L350 x W340 x H155  
**Barcode no. :**  
4 973934 227880  
**Origin:** Indonesia

### SUM-2(N)



2pcs  
Shrink Pack  
Size: C

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 100 pks  
**Net Weight :** N.A.  
**Gross Weight :** 11.50 kg  
**Measurement (mm) :**  
L280 x W270 x H110  
**Barcode no. :**  
4 973934 227903  
**Origin:** Indonesia

### SUM-3(N)



4pcs  
Shrink Pack  
Size: AA

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 100 pks  
**Net Weight :** N.A.  
**Gross Weight :** 8.30 kg  
**Measurement (mm) :**  
L150 x W300 x H110  
**Barcode no. :**  
4 973934 22792 7  
**Origin:** Indonesia

### UM-4(D)



2pcs  
Shrink Pack  
Size: AAA

**Quantity :**  
Inner carton - 20 pks  
Outer carton - 800 pks  
**Net Weight :** 14.00 kg  
**Gross Weight :** 15.00 kg  
**Measurement (mm) :**  
L368 x W286 x H125  
**Barcode no. :**  
4 994334 13029 7  
**Origin:** China

### S-006P(N)-1SP



1pc  
Shrink Pack  
Size: 9V

**Quantity :**  
Inner carton - 10 pks  
Outer carton - 200 pks  
**Net Weight :** 7.10 kg  
**Gross Weight :** 8.10 kg  
**Measurement (mm) :**  
L275 x W165 x H160  
**Barcode no. :** 49 13882 5  
**Origin:** China

## SUPER



### UM-1

2pcs Shrink Pack  
Size: D

**Quantity :**  
Inner carton - 12 pks  
Outer carton - 144 pks  
**Measurement (mm) :** L417 x W282 x H206  
**Barcode no. :** 4 994334 12488 3  
**Net Weight :** 27.80 kg  
**Gross Weight :** 28.80 kg  
**Origin:** Indonesia



### UM-2

2pcs Shrink Pack  
Size: C

**Quantity :**  
Inner carton - 12 pks  
Outer carton - 144 pks  
**Measurement (mm) :** L322 x W215 x H174  
**Barcode no. :** 4 994334 12489 0  
**Net Weight :** 13.45 kg  
**Gross Weight :** 14.44 kg  
**Origin:** Indonesia



### UM-3

4pcs Shrink Pack  
Size: AA

**Quantity :**  
Inner carton - 12 pks  
Outer carton - 144 pks  
**Measurement (mm) :** L245 x W181 x H165  
**Barcode no. :** 4 994334 12490 6  
**Net Weight :** 10.70 kg  
**Gross Weight :** 11.20 kg  
**Origin:** Indonesia

## Safety Precautions

### Rechargeable Battery Handling Precautions (Nickel-Metal Hydride Batteries)

#### **DANGER**

To avoid heat generation, bursting, fire and leakage:

- Never dispose of the batteries in fire or heat them.
- Do not connect the (+) and (-) ends with metal objects.  
When carrying or storing batteries, avoid direct contact with metal objects such as necklaces or hairpins.
- Do not deform, solder, disassemble or modify batteries.
- Do not use batteries with their (+) (positive) and (-) (negative) terminals reversed.
- Do not connect batteries directly to a power source or a car cigarette lighter socket.

If leaked liquid should get into the eyes, immediately rinse them with clean water and consult a physician.

**DANGER** (For cordless communications equipment)  
When connection to a telephone or facsimile, make sure that the plug is connected in the correct direction.

#### **WARNING**

- Do not remove the outer tube from the battery or damage it.
- If battery liquid leakage is noticed or a change in colour or shape occur, discontinue battery use.
- Store batteries out of reach of infants and small children.
- If leaked liquid gets on skin or clothing, wash off with clean water immediately.
- Do not connect 20 or more batteries in series.
- Do not charge batteries beyond the recommended time described in the instruction manual for the charger or other equipment.

#### **CAUTION**

- Do not strike or drop batteries.
- Be sure to refer to equipment instruction manual when using batteries.
- Do not use old and new batteries together or batteries with different charge levels.
- Do not use rechargeable batteries with dry cells or other batteries of different capacity, type or brand.
- When two or more batteries are to be used together, charge them simultaneously prior to use.

- When using a battery for the first time after purchase or after having not used it for a long time, be sure to charge it.

#### **AMBIENT TEMPERATURE RANGE**

- Discharging (when used in equipment):  
-20°C to 60°C
- Charging (when used in equipment):  
0°C to 45°C
- Storage :  
-30°C to 35°C

Using or storing in a temperature range other than the above is not recommended, as it may shorten battery service life.

### Primary Battery Handling Precautions (Lithium, Alkaline and Manganese)

Improper handling of batteries can lead to heat generation, bursting or fire. To prevent accidents, be sure to follow these precautions.

#### **WARNING (General)**

- Keep batteries out of children's reach.
- If leaked liquid is ingested or a battery is swallowed, consult a physician immediately.
- Do not charge, heat, disassemble or dispose of in fire.
- Do not insert batteries with their (+) (positive) and (-) (negative) terminals reversed.
- Do not short circuit. When carrying or storing batteries, avoid direct contact with metal objects such as bracelets or key chains.
- Do not use new and old batteries together. Do not use different types of batteries together.
- If leaked liquid should get in their eyes, immediately rinse them with clean water and consult a physician.

#### **WARNING (Lithium batteries)**

- In case of leakage or strange odor, keep away from fire to prevent ignition of any leaked electrolyte.
- Be sure to wrap each battery individually for disposal or storage to avoid short circuiting.

#### **WARNING (Camera-use lithium batteries)**

- Do not use batteries for unspecified purposes.

#### **CAUTION (General)**

- When completely discharged, be sure to remove batteries from equipment immediately.
- Keep batteries away from direct sunlight, high temperatures and humidity.
- Avoid contact with water.

### Charger Handling Precautions

#### **WARNING**

To avoid battery leakage, overheating or bursting:

- Do not attempt to charge anything other than SANYO rechargeable batteries.
- Do not use the charger with batteries that have been inserted with their (+) and (-) terminals reversed.

To avoid overheating, fire or electric shock:

- Never modify or disassemble the charger.
- Do not insert metal wires or similar objects
- Be sure to use the charger with the proper voltage.
- Be sure to disconnect the power plug before performing any maintenance or cleaning.
- Never plug in or disconnect the power plug with wet hands.
- Do not immerse the charger in water or use it in humid area such as in a bathroom.
- Keep the charger out of the reach of small children.

#### **CAUTION**

To avoid short circuiting, fire or electric shock:

- Do not use the charger if the power plug is damaged or not fully inserted into the outlet.

To avoid battery overheating, fire, leakage or bursting:

- Do not charge batteries continuously for more than 2 days (48 hours).
- Be sure to charge batteries within a temperature of 0°C to 40°C.
- Do not put heavy objects on top the charger or store in an unstable position or humid place.

If the charger appears to be malfunctioning, disconnect the power plug and consult your nearest service station.

- Disconnect the power plug when not charging.

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