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## SANYO's eneloop Series Expands with New-Type Batteries

Featuring high capacity "eneloop pro" and safer "eneloop plus"!



Tokyo, June 9, 2011 – SANYO Electric Co., Ltd. (SANYO), a world leader in rechargeable battery technology, is pleased to announce the new additions to line-up of the eneloop rechargeable battery series, the "eneloop pro", the "eneloop plus" and their charger sets to be released for the Japanese market.

The new "eneloop pro" battery has a 25% higher capacity than regular eneloop batteries, making it especially suitable for gadgets with high power consumption, such as digital cameras, strobe lights and flashlights etc. The new "eneloop plus" battery, with its overheat prevention function which suppresses overheating in case of improper use, is ideal for toys.

In addition, SANYO will also launch the "Wireless Charging Carrying Case" which can wirelessly recharge eneloop batteries. The carrying case is compliant with 'Qi'<sup>\*1</sup>, a standard of the Wireless Power Consortium (WPC) who are working towards the international standardization of wireless recharging technologies.

The "eneloop pro" will be available from July 21, 2011 and the "eneloop pro" charger set will go on sale from September 21 in Japan only<sup>\*2</sup>. The "eneloop plus" and its charger set will be available from December 1, 2011, also in Japan only<sup>\*2</sup>.

SANYO, as a member of the Panasonic Group, will continue to expand the "eneloop" series throughout the world so that people can comfortably adopt a new "lifestyle that values reusing and recycling".

Product Name	eneloop pro		eneloop plus		-
Product	AA size Nickel-Metal Hydride Rechargeable Battery	Charger set with AA size "eneloop pro" x 4	AA size Nickel-Metal Hydride Rechargeable Battery	Charger set with AA size "eneloop plus" x 4	Wireless Charging Carrying Case
Product Number	HR-3UWX-2BP/4BP	N-TGR01WS	HR-3UPT-2BP/4BP	N-TGN01PS	N-WL01S-W/-K
MSPR	2BP: JPY1260 (tax included) 4BP: Open <sup>*3</sup>	Open <sup>*3</sup>	2BP: undecided 4BP: Open <sup>*3</sup>	Open <sup>*3</sup>	Open <sup>*3</sup>
Release Date	July 21, 2011 <sup>*2</sup>	September 21, 2011 <sup>*2</sup>	December 1, 2011 <sup>*2</sup>		July 21, 2011 <sup>*2</sup>

\*1 The "Qi" mark means that a product with the mark fulfills WPC's standards for wireless recharging. The carrying case is useable with any charging pad with the Qi mark, regardless of the maker (Excluding certain models).

\*2 The products will be available in Japan only (as of the release date).

\*3 No manufacturer's suggested retail price is set for a product with an open price.

## Main Features

1. **eneloop pro:** Approximately 25% higher capacity than regular eneloop batteries
2. **eneloop plus:** With overheat prevention function for increased safety in case of improper use. Suitable especially for toys.
3. **Wireless Charging Carrying Case:** Wirelessly recharge AA and AAA-size eneloop batteries. Compliant with 'Qi', an international standard for wireless recharging technology.

Press Photo Download: <http://panasonic.co.jp/sanyo/news/press/download.html> 

eneloop global site: <http://sanyo.com/eneloop/> 

International Tokyo Toy Show website: [http://www.toys.or.jp/toyshow/index\\_en.html](http://www.toys.or.jp/toyshow/index_en.html) 

## eneloop pro

### Approximately 25% higher capacity than regular eneloop batteries.

The new addition to the line-up, the "eneloop pro" rechargeable battery with Min. 2400mAh<sup>\*4</sup>, has a 25% higher capacity than the regular eneloop battery with Min. 1900mAh<sup>\*4</sup>. This means that the battery has a longer life than the eneloop and is more suitable for professional use of digital cameras, strobe lights and flashlights etc.

\*4 Minimum (min.) battery capacity based on the IEC61951-2(7.2.1) testing conditions



In addition, thanks to the eneloop's self discharge control technology, a fully-charged "eneloop pro" is capable of holding approx. 75%<sup>\*5</sup> of its initial capacity and is ready-to-use even after 1 year of storage. The "eneloop pro" can be recharged by existing eneloop chargers as well.

(An equivalent model of the "eneloop pro" has been marketed in Europe as "XX (double X)".)

In accordance with the "Green Power Certification System," the "eneloop pro" batteries are charged by "Green Power" from photovoltaic generation. A part of the electric power used for manufacturing "eneloop pro" batteries (the amount equivalent to that used for factory pre-charging) is generated using clean, renewable solar energy, part of SANYO's initiative to realize a "Clean Energy Loop," where power is generated from renewable energy sources, stored for use when needed in batteries, and conserved or used efficiently.



In addition to its higher capacity, eneloop pro keeps the self discharge control technology of eneloop

## eneloop plus

With overheat prevention function for increased safety in case of improper use. Suitable especially for toys.

The “eneloop plus” battery houses a PTC thermistor<sup>\*6</sup> which suppresses overheating in case of improper use, such as incorrect insertion of batteries, and is safer to use for toys for small children.

The “eneloop plus” also features the self discharge control and other characteristics of the regular eneloop and can also be recharged by existing eneloop chargers as well. “eneloop plus” will be showcased at the “International Tokyo Toy Show” to be held in Tokyo Big Sight, from June 16 to 19, 2011. (4F West Hall 3 K-25)

In accordance with the “Green Power Certification System,” the “eneloop plus” batteries are also charged by “Green Power” from photovoltaic generation.

\*6 PTC thermistor stands for Positive Temperature Coefficient.



## Wireless Charging Carrying Case

Wirelessly recharge AA and AAA-size eneloop batteries. Compliant with ‘Qi’, an international standard for wireless recharging technology.

The Wireless Charging Carrying Case can speedily and wirelessly charge the eneloop series batteries (AA and AAA-size eneloop, AA and AAA-size eneloop lite, AA-size eneloop pro as well as AA-size eneloop plus) by simply placing it on a charging pad which is compliant with “Qi” standards. The compact body is easy to carry around, and also prevents electrical shorts. “Qi” is an international standard of the WPC, and Panasonic Group, a regular member of the WPC, has been participating in the standardization since the foundation of the WPC.



\*7 Charge Pad to be available from June 24 in Japan from Panasonic

## Outline and Background

The “eneloop” battery has received high market appraisal for its unique, user-friendly combination of having the advantages of both dry cell and rechargeable batteries. The batteries come pre-charged like a dry cell, and are economical and environmental as they are able to be recharged for repeated use as well as recyclable at the end of their lifecycle. According to a company survey, the satisfaction level of “eneloop” users is over 90%<sup>\*8</sup>, and numerous companies now bundle “eneloop” batteries with their products. In total, over 170 million “eneloop” battery cells have been shipped to more than 60 countries worldwide (as of May 2011).

\*8 Based on SANYO’s Internet survey conducted in October 2010, covering 300 eneloop purchasers

## Specification

### eneloop pro and eneloop plus, Nickel-Metal Hydride rechargeable batteries

Product Name	eneloop pro eneloop pro	eneloop plus eneloop plus
Product Number	HR-3UWX	HR-3UPT
Nominal Voltage	1.2V	
Rating Capacity (Min.)	2400mAh <sup>*9</sup>	1900mAh <sup>*9</sup>
Dimension	14.35mm (diameter) x 50.4mm (height)	14.35mm (diameter) x 50.4mm (height)
Weight	Approx. 30g	Approx. 27g

\*9 Minimum (min.) battery capacity based on the IEC61951-2(7.2.1) testing conditions

### Charger Set

Product Name	eneloop pro Battery Charger Set	eneloop plus Battery Charger Set
Product Number	N-TGR01WS	N-TGN01PS
	1 battery: triple speed charging 2 battery: double speed charging	Both ends of slots: double speed charging, AA and AAA in common.

Features	* Charging time (*1 battery : triple speed charging) AA-size eneloop : Approx. 75 minutes AA-size eneloop pro : Approx. 95 minutes	* Charging time (*1 or 2 batteries : double speed charging) AA-size eneloop : Approx. 210 minutes AA-size eneloop plus: Approx. 210 minutes
Dimension	65 mm (Width) x 28 mm (Depth) x 105 mm (Height)	70 mm (Width) x 29 mm (Depth) x 110 mm (Height)
Content of Set	Charger (NC-TGR01-K) x 1 AA-size eneloop pro (HR-3UWX) x 4	Charger (NC-TGN01) x 1 AA-size eneloop plus (HR-3UPT) x4

#### Wireless Charging Carrying Case

Product Name	Wireless Charging Carrying Case
Product Number	N- WL01S-W (White) N- WL01S-K (Black)
Charging time (1 or 2 batteries)	AA-size eneloop: approx. 180 minutes AA-size eneloop plus: approx. 180 minutes AA-size eneloop pro: approx. 230 minutes
Dimension	73 mm (Width) x 34 mm (Depth) x 26 mm (Height)
Weight	Approx. 30g(except battery)
Content of Set	Charger (NC-WL01) x 1 AA-size eneloop (HR-3UTGA) x 2