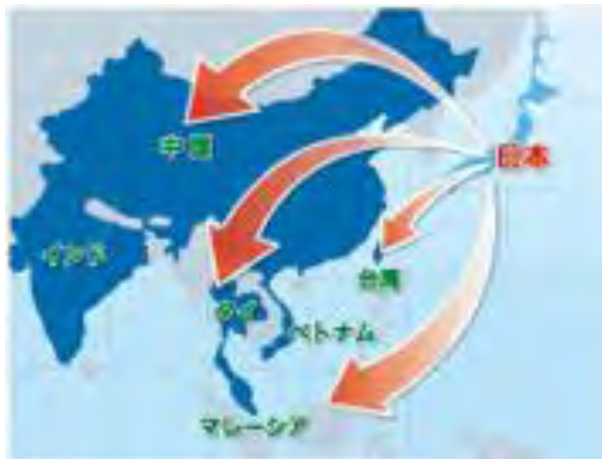




ENGINEERING

株式会社 エイペックエンジニアリング
APEC ENGINEERING Co., LTD.

LED Street Lighting & Parasolar Protection against disasters



APEC
PRODUCED
ENGINEERING IN
JAPAN & ASEAN

APEC Company Overview

- ◆ **Capital Amount** JPY 34 million
- ◆ **Headquarters** 5F Ginza Fugetsudo Building 5F Chuo-ku Tokyo,
〒104-0061
TEL:03-5537-7706 FAX:03-5537-5281
- ◆ **Chiba Branch** 2060 Anegasaki Ichihara City Chiba, 299-0111
TEL:0436-62-7733 FAX:0436-62-7758
- ◆ **Established** Dec 25th, 1995 / May 21st , 2003
- ◆ **President** Shinjiro Sugimoto
- ◆ **Major Business Lines**
 - Sales of “LED Street Lights”
 - Development and Sales of “Disaster protection Parasolar Communication Systems”
 - General engineering services for plant constructive work
 - Selling electrical wires and cables (Made in Korea)
 - Conduct electrical construction and telecommunication activities.

Corporate Identity

Drive earth-friendly and environment business

- *Offer high quality but reasonably priced products
- *Make best effort to develop high quality, efficient and effective goods which can support, protect, and comfort the people of the region
- *Protect the living and heart of the people by adding disaster protection functions and lighting the community.





Goals and Potential Market

Clean Energy

‘LED street lights’ are a global boom!

Development and Sales of “Disaster protection Parasolar Communication Systems”

- ◆ For use in Tohoku disaster affected areas
 - ◆ For use in Asean countries
 - ◆ Market into other countries
 - ◆ For lighting use in parks, shopping alleys, backstreets, main streets, inside factories, schools, kinergartens, and isolated mountainous
- Effective to the people’s living and the economy!

“APEC Brand”

About Solar LED Street Lights

Select the most required from various types



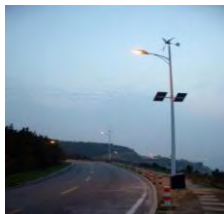
- ◆ **No power required: Only solar natural energy**
⇒ **Zero Co2 emissions**

Possible duration ⇒ 5 days guaranteed without receiving any solar lights

- ◆ LED life span : 60,000 hours/3 years guarantee
- ◆ **Battery Lifespan : Requires maintenance every 3 years**
Equipped with emergency 100 V battery

Uses Lithium Battery; lasts twice as long

- ◆ No glass breakage; No mercury leakage
Safer than bulbs or flourescents in times of earthquakes
- ◆ **Can attach solar panels and windpower**



Parasolar Communication Systems with Disaster protection functions

A beach parasol type with solar panels on the parasol and LED below the parasol, equipped with 100V battery for use for PC or AV equipment

A Disaster prevention Parasolar communication center (which will protect the community in time of disasters)

Function as communication center in time of disasters

Function as mobile phone battery charger/ functions as a coffee stand in normal times to enhance community network

Utility model patent: Time judge application No TJ12038 号

Registered trademark: 21221950027

Application No: Patent app 2012-86226

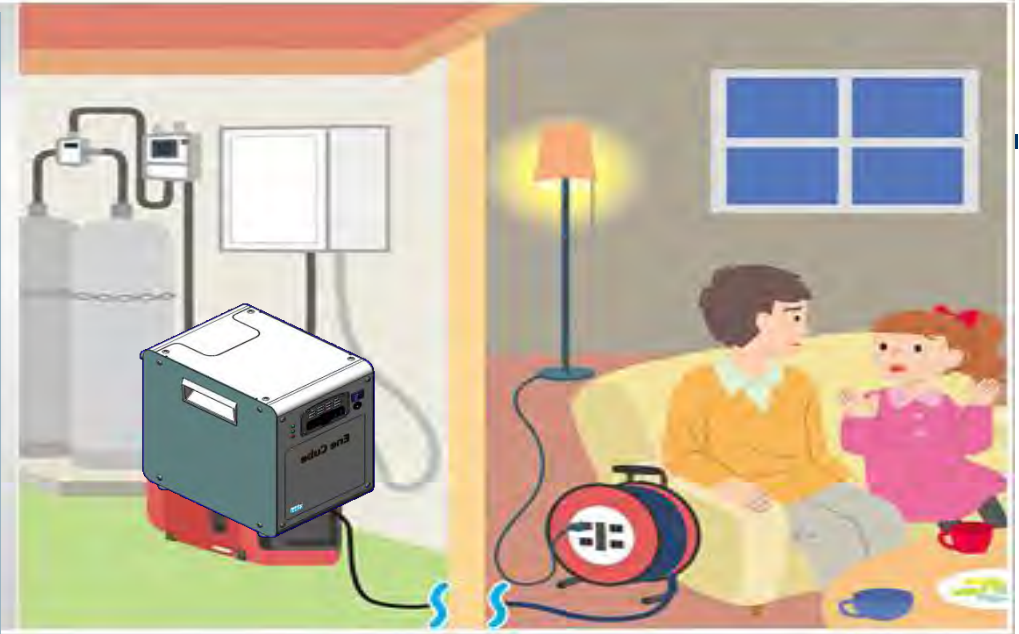
Has mobile type and fixed type



1. Portable power source (Nippon Densan COPAL)

● A backup power source in times of black outs

Can be used for minimum power requirements i.e. lights, phones, water heater, etc



● Product janre Portable power source(battery accumulator)

● KEY WORD

1. Compact and light : 3.5~5kg... Can be easily carried
2. Energy saving : Less energy consumption with mixed use of small size solar panels
3. High efficiency : Can be used for leisure or business with removable inverters

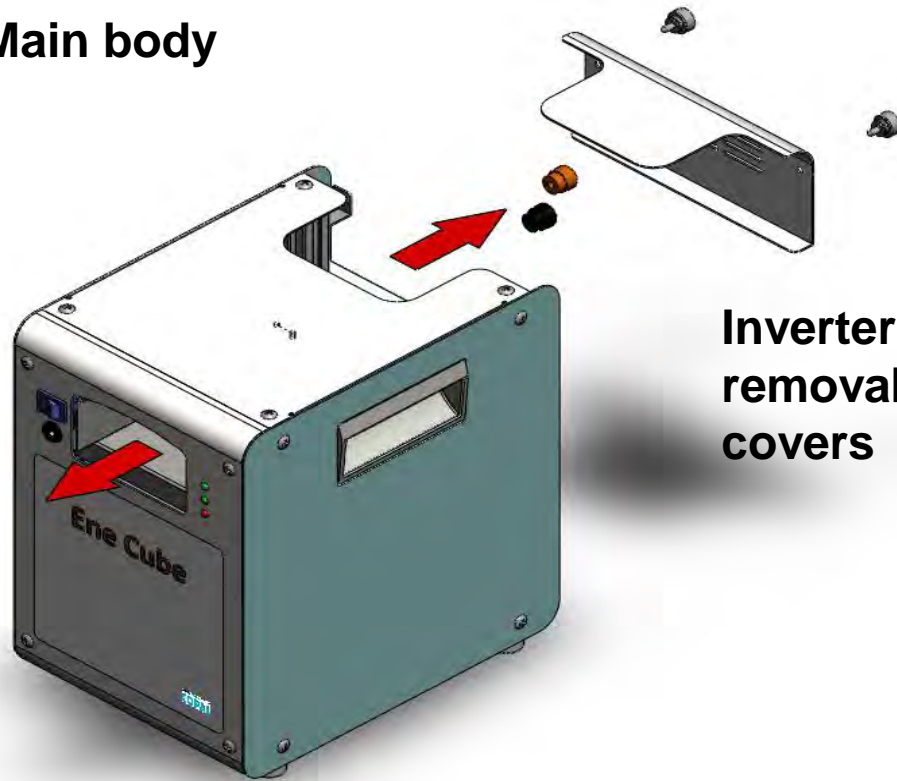
2. Main features of product (Nippon Densan COPAL)

Power source can be connected to cigarette lighters of automobiles

inverters



Main body





Inverter removable covers

Future products:

1. Low cost solar panel attached type (TYPE A, B)
2. Free standing type with solar panels built in (TYPE C, D)

4. Basic models and product list (Nippon Densan COPAL)

		Lead battery type	Lithium Ion battery type		
TYPE		A	B	C	D
Appearance					
Basic model	Battery size(Wh)	60	180~240		
	Inverter power (W)	150			
	Solar panel	With one panel	With one panel	Option	With two panels
	Battery charger	option	Battery attached	Battery attached	Battery attached
	Carrier	Nil	Nil	Nil	Nil
	LED light	Nil	Nil	Yes	yes
Size H × W × D (mm)		270 × 160 × 230	270 × 160 × 230	350 × 160 × 230	350 × 160 × 230
weight (kg)		4.0以下	3.5以下	4.0以下	5.0以下
3WLED lighted time (h) approx		8	30	30	30

APEC engineering Co., Ltd.

Go forward into the future

- ◆ Japan's role as member of ASEAN area is important in the era of Globalization. Do some good in the community.
- ◆ Producing in foreign factories saving production cost and we Japanese take up initiative for marketing.
- ◆ **We will join the market in overseas in Aug, 2014.**
- ◆ Let's create the scheme together that will provide to continued profitability to the future.
- ◆ We set our company's goal to help children realize their dream!



APEC Engineering Co., Ltd.

President Shinjiro Sugimoto