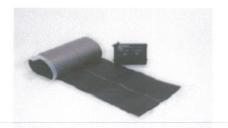


# "Luz Solar" Superlight Weight, Thin Film Type Solar Panel

January, 2015

Kens.co

# What is "Luz Solar"?



Luz Solar Panel & Charge Controller

"Luz Solar" is Super Lightweight (less than 1Kg), Thin-Film (2mm thickness) type solar panel that can be portable and installed even the low load capacity of the roof thatched with grass or straw, or made by galvanized iron (tin) etc.

# Luz Solar



**Demonstration in Guinea** 

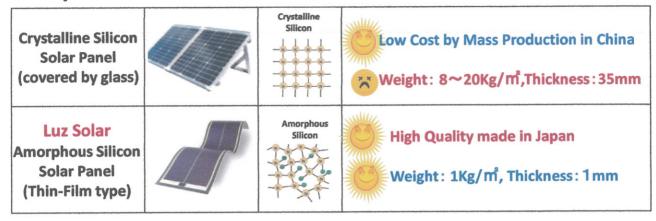


**Demonstration in Nigeria** 



Demonstration in Kenya

## **Comparison of Solar Panels**





It is recommended to use Luz Solar in the applications where the advantages of Thin-film type can be utilized.

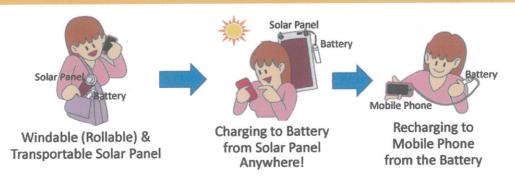


1. Charging to Mobile Phone Anywhere

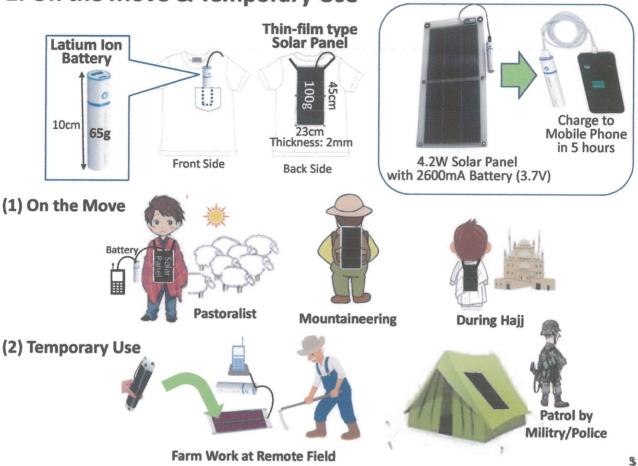
Village without access to electricity

Village with access to electricity

Portable Luz Solar can charge the power to Mobile Phone anywhere even when you visit the villages without access to electricity.



# 2. On the Move & Temporary Use

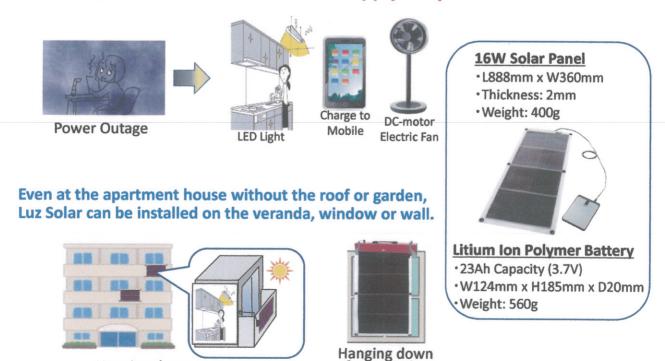


# 3. Portable type Solar Panel for Apartment House

Hanging down

form veranda

During power failure, Luz Solar can supply the power to the house.



form window

# 4. Maintenance-Free Solar Powered Street Light

#### (1) Crystalline Silicon Solar Panel

Crystalline Silicon Solar Panel covered by glass installed in Middle East and Africa faces the troubles and operates only for a few years.



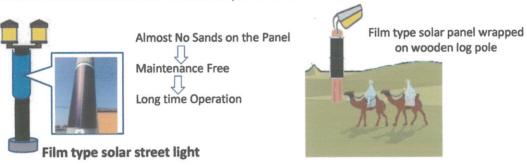
Impossible to wash away the sands on the panel installed at the op of the tall pole



Crystalline solar panel is Fragile against stone throwing

#### (2) Film Type Solar Panel (Luz Solar)

Film Type Solar Panel is vertically wrapped on the surface of the pole on which the sands are not attached. The maintenance free solar panel is suitable in in rural and desert areas.



#### 5. Solar Powered Tent

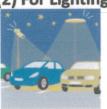
Film type solar panels (Luz Solar) can be installed even on the tents and the awnings (fabric sun-shade) and supply the electric power to mobile phone, lighting, surveillance camera, large size fan, mist jet cooling system etc.

#### (1) For Charging to Mobile Phones





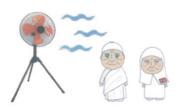
#### (2) For Lighting



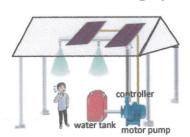
(3) For Surveillance Camera



(4) For Large Size Fan

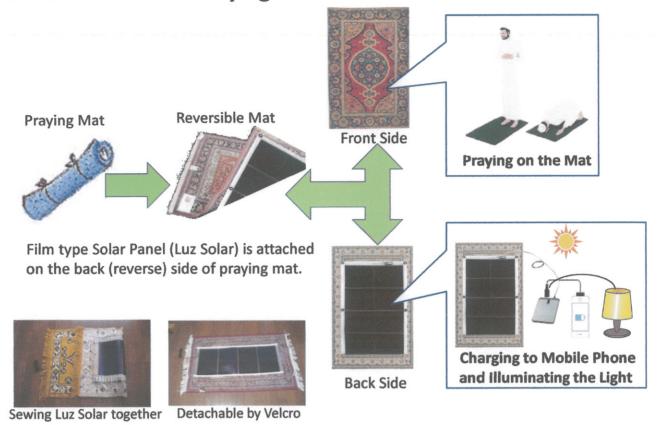


(5) For Mist Jet Cooling System

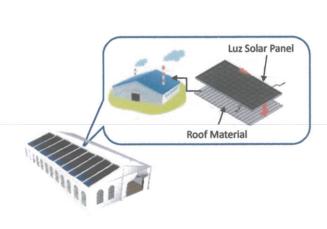


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# 6. Solar Powered Praying Mat



# 7. Integrated Roof Material at the Factory





Integrated with Building Materials



Integrated with Roof Materials

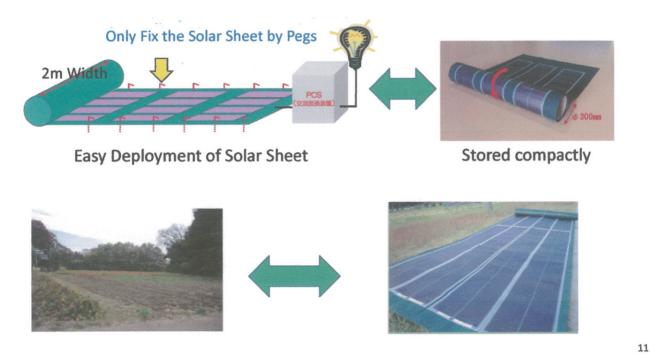
We design and supply the integrated roof materials mounting the Thin-film type Solar Panels (Luz Solar) for the roof of the factory.

- We design the custom-made roof materials of factory together with the Thin-film type Solar Panels.
- · Thin-film type Solar Panels on the roof supply the electricity energy for the lights of the factory.

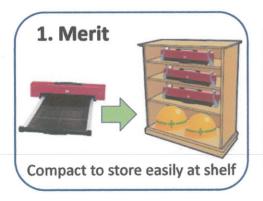
## 8. Weeding Solar Sheet

During the agricultural off-season, the Weeding Solar Sheet can be easily deployed to free from the weeds on the ground while the electric power can be generated.





### 9. Disaster Countermeasure Use

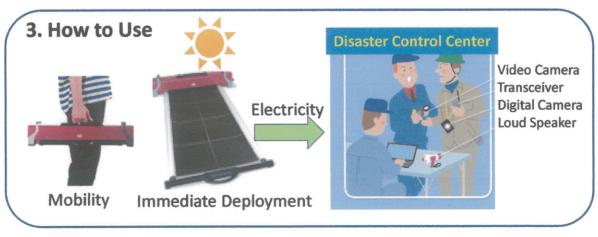


#### 2. When to Use

Solar Panels should be stored at municipal office for disasters. Solar Panels can feed the power for "Disaster Control Center".



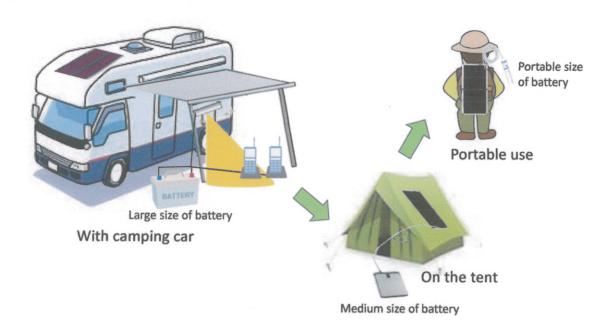
In case of Disaster



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# 10. Camping Car Use

- (1) Thin-film type solar panel (Luz Solar) has the feature to be resistant to vibration even on the roof of the camping car.
- (2) Luz Solar can be transportable from the camping car to the tent or carryable for potable use by changing the size of the batteries.



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