# Portable Solar Set

Flexible Solar Sheet with Rechargeable LED Lantern
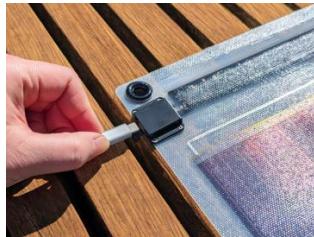
GN-150

Key Points

Improving power generation capacity

The GN-150 has improved power generation capacity*1 to make it more convenient to directly charge smartphones, which have increasingly large built-in batteries.

The estimated smartphone charging time is approximately 3.8 hours. *2

*1 Maximum power generation capacity of a single solar sheet cell. Approximately 1.7 times higher than our previous products.

*2 Estimated time assuming a smartphone battery of 5200mAh/3.7V. Power generation capacity varies greatly depending on sunlight conditions, so the figures are for reference only and are not guaranteed.

Main features of the Solar Sheet Charger

• A solar sheet that can generate electricity using sunlight even in places without a power source.

• Maximum power generation capacity/maximum output power: 8.1W/7.3W.

• It is possible to directly charge USB devices such as smartphones, tablets, and mobile batteries.

• The connector uses USB Type-C

• Highly waterproof, IP65 rating (USB part is IPX4).

•It uses a safe amorphous sheet that is resistant to bending and impacts and can be rolled up for storage.

• The sheet is less likely to curl, and the flatness of the generating surface is maintained, ensuring stable voltage and current.

• It is less susceptible to temperature effects and can generate electricity even in extremely high temperatures, such as in the desert.

• Lightweight design weighing just 210g, it can be rolled up compactly for easy carrying.

• Made in Japan quality and high reliability.

• It can be directly connected to USB devices such as small fans and LED lights that do not have battery

   functions to supply power.
(Some devices cannot be used.)

Kens.co

Name of each part

ロゴラベル
(QRコード付き)
受光面
4-ハトメ
(15)
(28)
330
(82)
(15)
26
32
USBケース
USBtype-C
(8.5)
(0.8)
520

Hook

Power switch

Input port
(Micro-B)

Output port
(Type-A)
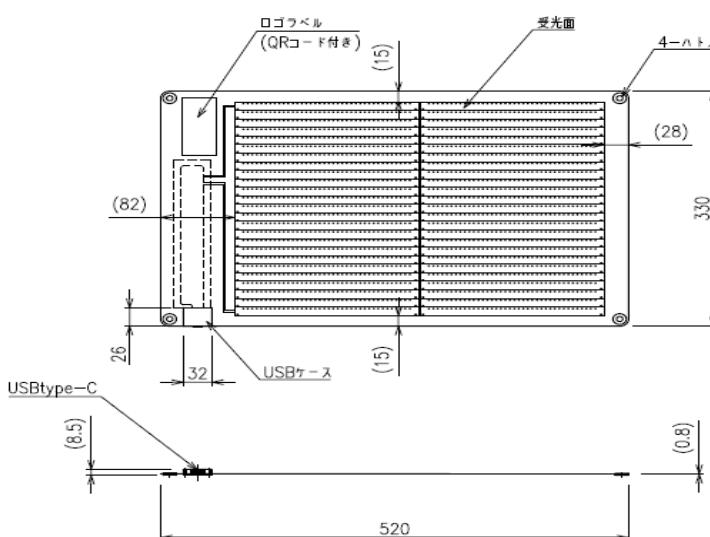
Rechargeable LED Lantern

How to connect
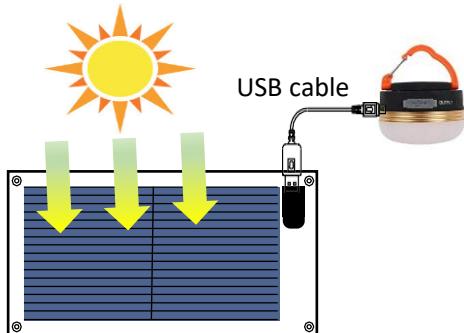
USB cable

(1) Charging from Solar
sheet to LED lantern

(2) Charging from Solar
sheet to Mobile phone

USB cable

(3) Recharging from LED
lantern to Mobile phone
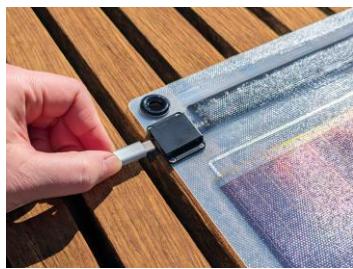
Note:
・(1) & (2) : USB box is opened when connecting USB cable.
・(3): Rechargeable only after LED lantern has been charged in case (1).
・ Mobile phone is not included.

How to charge
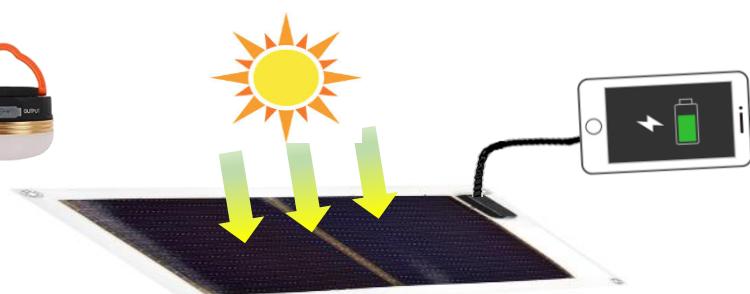
Put the solar sheet on flat ground outside horizontally to receive direct sunlight.

Kens.co

Charging Time (indication)

・LED Lantern for built-in 1800mA battery: Approx. 4 hours
・USB DC5v/1A approx. 4 hours
・ (*subject to sunshine conditions and different wattage of solar sheet.
• Waterproof IP66/ Normal Output : 1.0A/DC5V

3-Lighting Mode

Putting the power switch
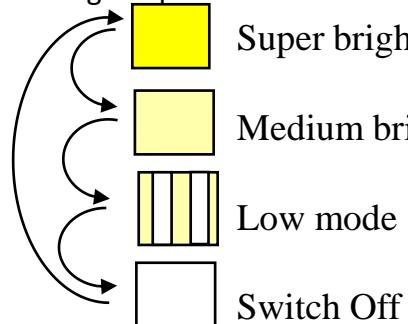
Brightness, working time*

Super bright light mode (300lm, 4 hours)

Medium bright mode (100lm, 10 hours)

Low mode (70lm, 30 hours)

Switch Off

*After full-charging the built-in battery when the battery is not deteriorated.

How to deploy and store the solar sheet
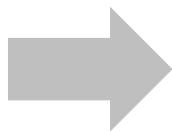
When the solar sheet is used, it should be rolled on reverse side to smooth out.

The solar sheet can roll up by Velcro.

Velcro

Caution
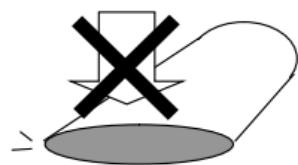
Do not crush the rolled solar sheet
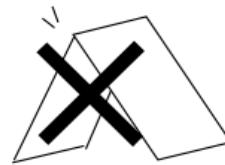
Do not bend at acute angle.
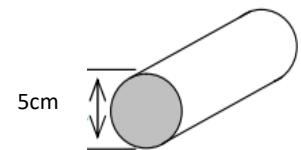
5cm

Do not roll below 5cm in diameter.

Kens.co

LED Indications

Red
Lighting while using LED Light

Green
Blinking: During charging
Lighting: Fully charged

Solar sheet charger
ソーラーシートチャージャー (ソーラーシートチャージャーセット)

Specifications

GN-050- Amorphous Solar Sheet	Specifications
Material	Amorphous Silicon
Maximum power generation capacity	8.1W
Maximum output Voltage/current	5.0V x 0.95A
Dimension	L520×W330 t=0.8 (excluding protrusions)
Thickness	1mm (except USB Box)
Weight	About 0.21kg
Operation Temperature	-20℃～40℃
Waterproof	IP65/IPX4 (USB)

LED Lantern	Specifications
Number of LEDs	5 LEDs(COB)
Lighting Mode	Super bright light mode (4 hours) Medium bright mode (10 hours) Low mode (30 hours)
Latium-ion battery	1800mAh/5V ~ 2200mah
Size (without hook)	Diameter 65mm x Height 50mm
Weight	85g

- *Spec of LED lantern may change without any prior notice.*