

Emergency power supply for laptop PC.

Mobile solar set GSS-1016B

For camp, mountain climbing, power outage.

16W solar sheet,
that can fully charge
the battery in sunlight.

23000mAh
battery,
can also be used
for laptop PC.

16W Solar sheet
+
23000mAh Mobile Battery

16W Mobile solar sheet

23000mAh battery



Emergency mobile solar power generation system

Full charge in just 13 hours to attached 23000mAh mobile battery by 16W solar sheet.

Reliable solar sheet made in Japan

Light weight and easy to carry (solar sheet: approx. 400g, battery: approx. 560g).

Flexible, rollable thin-film solar sheet

GSS-1016B can be used with laptop PC. It is comprised of 23000mAh battery and 16W solar sheet for emergency solar generation. Laptop PC is used as information terminal not personal use only, or as a stand-alone information processing equipment at many sites. Even if battery is once empty, solar sheet that generates electricity by solar natural energy until the power recovery.

With GSS-1016B mobile solar set, laptop PC can be used conveniently even in construction site and outdoor not for only emergency use.



Rollable thin-film solar sheet

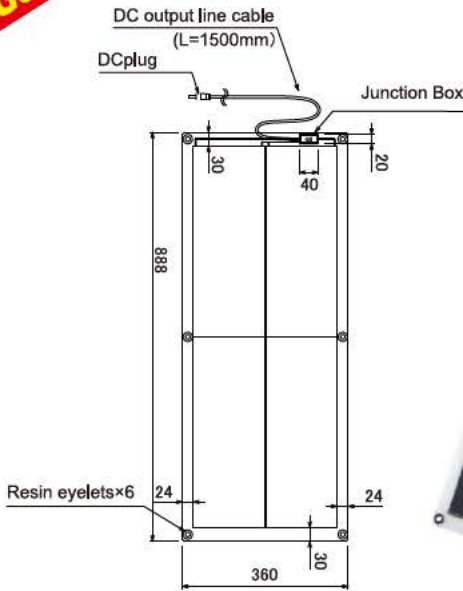
Compact solar GSS-1016B set contents

Product Name	Quantity	Dimensions (W×H×D) mm
16W Mobile solar sheet	1	L888×W360、t=2 (excl. Projected Portions)
Battery	1	W124×H185×D19.5
Instruction manual	2	Generator (Solar) × 1 Charge (Battery) ×1

Open price

Generator 16W solar generation sheet

Dimensional outline drawing



Flexible and light-weight amorphous solar sheet.
Hardly affected by temperature, power generation is greater at high temperatures, such as desert.
No use any glass, strong and safe to corruption.
Convenient eyelet for rucksacks.

Solar sheet specification

Main material	Amorphous silicon, ETFE
Output power (nominal)※1	Max 16W/DC18V
Continuous generating time	The continued generation as long as there is light source.※2
Dimensions(mm)	L888×W360、t=2 (excl. Projected Portions)
Weight(kg)	Approx. 0.4
Effective temperature	-20°C~ 60°C
Effective humidity	Under 85%RH (No condensation)
Water proof	IP13 (Rainproof) ※3

※1 : Efficiency of the charging varies of the conditions of Sun light, not guaranteed.
※2 : When the sunlight can make a shadow, power generation can be possible.
※3 : Do not use in wet condition, Please make sure to wipe the unit or dry completely before use.

Charge 23000mAh battery TL-230K

Large capacity lithium-ion polymer battery is built-in. It can recharge about 500 times and it is economical. LCD screen reveals charging status and battery level. Equipped with protection circuit to prevent over-charging and over-discharge of the built-in rechargeable battery should also safe to reset fuse built-in charging AC adapter supplied with the overcurrent. It supports AC100V~240V and can also be used in foreign countries. It includes Neoprene storage case with excellent protection.

Mobile phone, iPhone · iPod · iPad (Dock), smartphone, various conversion connector included corresponding to the charge, such as game consoles

DC port can output 5 kinds of output voltage, 9V/12V/16V/19V/20V to support many laptop PC with nine conversion plugs. (It isn't guaranteed that all of laptop PC can be charged.)



Supports simultaneous output of USB port x2 and DC port. While power supply to the laptop, it can charge to such as smartphones.

It can recharge laptop PC or various USB devices

Battery specification

Model name	TL-230K (Manufactured by TAMA ELECTRIC INDUSTRY CORP.)	Recommended products
Main material	Lithium-ion polymer battery	
Output power (nominal)	DC9V/12V/16V/19V/20V/USB5V×2 (Max 2.1A)	
Battery charging time	Approx. 10 ~ 13hours by Solar sheet※4 Approx. 5 hours with AC100V power source.	
Battery capacity	23000mAh / DC3.7V	
Continuous generating time	Approx. 6.3 hours ※5	
Dimensions(mm)	W124×H185×D19.5	
Weight(kg)	Approx. 0.6	
Effective temperature	5°C ~ 35°C	
Effective humidity	Under 85%RH (No condensation)	

For details of the battery, please refer to TAMA ELECTRIC INDUSTRY CORP. Web page.
http://www.tamadenco.co.jp/products/itemDetail.php?item_no=545

※4 : Efficiency of the charging varies of the conditions of Sun light, not guaranteed.
※5 : Reference purpose only, not guaranteed as an external battery with standard laptop PC.

Solar sheet you can charge above battery and also other battery with following spec.

- ① Chargeable by DC12V~18V
- ② Equipped with protection circuit to prevent over-charging
- ③ Connection plug is a DC plug of φ5.5xφ2.1 (outer diameter x inner diameter).
- ④ For 12V lead battery, it is chargeable by a charge controller.

(Caution) Because batteries have a variety of characteristics, it isn't guaranteed that all of batteries can be charged. TL230K is recommended.

Caution Please kindly read this instruction manual carefully and use the product properly. ● To reduce the risk of electric shock with this unit, don't place and use in a lot of moisture and rain. And don't handle by wet hand. ● Do not insert metal objects to the connector. When it is used by the child, please make sure the supervisor guides him for handling. When in use, the supervisor needs to watch carefully.

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