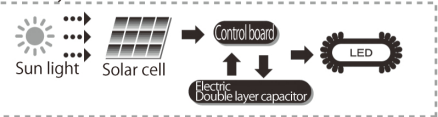


# LED Glass Block

## instruction manual

### Introduction

This time Thank you for purchasing our product "LED Glass Block".  
In order to properly use the product, please read to the end of this manual before using it.  
Please understand the proper use of the product. Be sure to keep this manual.

<p>① Product Summary</p> <p>This product is solar cell and electric double layer capacitor. This product is equipped with a combination of solar power. Long life design By adopting electric double layer capacitor no long-term maintenance required. High visibility Ensure higher visibility by adopting high brightness LED Environmentally friendly Utilizing solar energy, and in the power storage unit harmful heavy metals are not included.</p>	<p>② Operation explanation</p> <p>Solar cells start generating electricity by sunlight, electric energy is charged in the electric double layer capacitor. At the sunset, the light emitting diode (LED) will start to light automatically.</p> 
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<p>③ Description of construction</p> <p><b>warning</b></p> <ul style="list-style-type: none"> <li>● Please do construction according to the instruction manual correctly. Failure to do so may result in fire, electric shock, or falling.</li> <li>● Do not modify the equipment. There is a danger of fire or electric shock.</li> <li>● Please do not use in places with many vibrations and impacts, where corrosive gases, flammable gases are generated, where combustible materials are in close proximity, in places with large dust, in salt damage areas. There is a danger of fire or electric shock.</li> <li>● It is a dedicated embedded underground device. Please do not install on the ceiling or wall. Failure to do so may cause injury due to falling of the instrument.</li> </ul> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>● This equipment is for general outdoor use. It can not be used in other places.</li> <li>● Do not use in high temperature areas. It may cause fire, electric shock, lighting failure.</li> <li>● Do not use in places where vehicles etc. pass or riding place. There is a danger of damage.</li> </ul>
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<p>④ Caution on construction</p> <ul style="list-style-type: none"> <li>● Please install to a place where it is exposed to direct sunlight (about 20,000lx) for over 10 hours</li> <li>● In extremely bright places even at night, instruments may not light up.</li> <li>● Places where solar radiation to the solar cell surface decreases are not suitable for installation. ex.) Places with many leaves · snowy areas · Locations where buildings are nearby and become shadows.</li> </ul>
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<p>⑤ Safety Precautions for Customers</p> <p><b>warning</b></p> <ul style="list-style-type: none"> <li>● In the unlikely event that smoke or an unpleasant odor come out, please consult your dealer or construction shop promptly. Failure to do so may cause fire or electric shock.</li> <li>● Do not modify the equipment or replace the parts. There is a danger of fire or electric shock.</li> </ul> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>● Do not cover the solar cell. Not lit, abnormal lighting or lighting time will be shortened.</li> <li>● The product has a life span. In general places of use, deterioration of the internal progresses even if there is no abnormality in appearance after 8 to 10 years of installation.</li> </ul> <p>We recommend checking and replacing.</p> <ul style="list-style-type: none"> <li>● When the ambient temperature is high or the lighting time is long, the life tends to be short.</li> <li>● As it is a glass product, it may be damaged or broken, it may cause serious injury with glass fragments.</li> <li>● Do not give a shock with hard objects or heavy objects. The equipment will be damaged.</li> <li>● Since the equipment may be damaged by the impact of falling, you may get injured with debris, so please handle with care.</li> </ul>
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<p>⑥ Usage notes</p> <ul style="list-style-type: none"> <li>● Since there are variations in LEDs, light color and brightness may vary for each LED element, but please understand.</li> <li>● This instrument charges with solar battery and lights up. When installing multiple lamps The lighting time may differ slightly depending on the installation position and charging status.</li> <li>● This appliance lights up / extinguishes with illuminance. When installing more than one, the lighting / turning-off time may differ slightly depending on the installation position.</li> <li>● To maintain the power generation efficiency of the solar cell, periodic cleaning of the instrument surface is necessary.</li> <li>● Be sure to charge direct sunlight for over 10 hours before installation and check whether it lights up. Please install after confirmation of lighting.</li> </ul>
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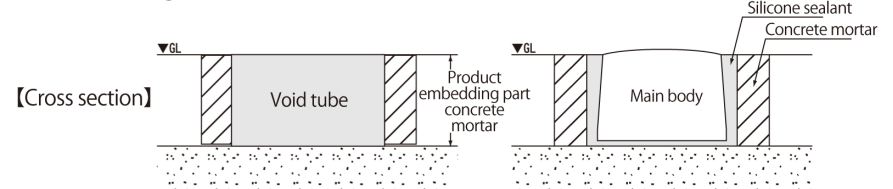
### ⑦ Mounting method of equipment

- Construction as an interlocking block
  1. Flat the bottom of the body digging to the depth of 3 to 5 cm in thickness.
  2. After spreading the sand to about 3 - 5 cm in total, spread it flat by treading with a foot etc.
  - ※ Please do not set the main body directly in concrete, mortar etc.
  3. To finish, protect the surface with waste cloth etc. and flatten it with a rubber hammer or the like while striking. Fill more dry sand with the joint until it is fully filled.
- Finally we remove the excess sand and finish it.

### Never give vibration with a rolling machine or the like.

- Construction when installing in concrete, mortar

※ The void tube is included in only round type φ 60 and φ 90 types.

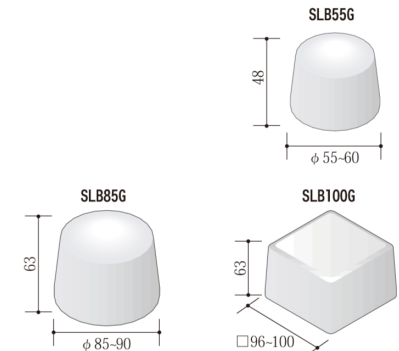


- ① Fix the bundled void tube or formwork, and pour the concrete / mortar.
- ② Remove the void tube or form when the concrete / mortar is solidified.
- ③ After removing the void tube or formwork, adjust the level and height with sand or mortar.
- ④ Pour the silicone sealant into the hole and install the main unit from the top.
- ⑤ Cure the surface of the main body and fill the silicone sealant tightly.
- ⑥ Do not move until the silicone sealant is cured.

Please fill the surrounding with silicone sealant without installing directly even when not using void tube / formwork.  
**Recommended sealing material ... Cemedine / Silicone sealant 8060, 8051N**

### ⑧ Specification

	SLB55G	SLB85G	SLB100G
Body material	Glass		
Light color	Blue / Green / White / Light Bulb Color		
Solar cell	Silicon single crystal		Amorphous silicon
Power storage unit	Electric double layer capacitor		
	50F / 2.7V	23.5F / 5V	50F / 5V
Light source part	High brightness LED x 1	High brightness LED x 8	High brightness LED x 8
External dimensions	φ 55 to 60 x 48mm	φ 85 to 90 x 63mm	□ 96 ~ 100 x 63mm
	Embedding size : 43mm	Embedding size : 60mm	Embedding size : 60mm
Mass	200g	505g	880g
Charging time (when fully charged)	10 hours ( 20,000 lx in cloudy weather )		
Operating time ( full charge )	6 hours	8 hours	8 hours
Turn on / Turn off	Automatic lighting at sunset		
Operating temperature limit	-20 to 60 °C		
Water resistant	IP68		
Pressure load	1,000kgf	500kgf	1,000kgf
Sliding resistance ( wet )	20BPN		



<p>About guarantee</p> <ul style="list-style-type: none"> <li>● The warranty period for this product is one year from the date of purchase of the product.</li> <li>● If the product fails within the warranty period in the use state according to the instruction manual, Then, We will take care of alternative products free of charge.</li> <li>● Consultation on repair, as well as any questions, please contact your dealer ( Construction contractor ) or contact the following contact address.</li> </ul>	<p>Maintenance notice</p> <p>About Cleaning Instruments</p> <p>To remove dirt, wipe dry cloth or neutral detergent in water and wipe it off</p> <p>Volatile substances such as thinner and benzene and acid and alkaline detergents. Do not wipe it or put insecticide on it.</p> <p>It may cause damage due to deterioration or discoloration of the instrument.</p>
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Record for maintenance	
product name	Part number
Construction store	Installation date

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