The items shown are provided as part of a total integrated Philips Gardco Solar area lighting system only. Factory quotation and factory preparation of submittals are required. Submittals apply to the factory quotation number shown above only. Contact your Philips Gardco representative for further assistance.

Solar Area Lighting System - LED

Solar Batteries, Enclosures and Options[1]

BATTERIES[1]

B118CA 118 Amp Hours
2B118CA 236 Amp Hours *(2 -118 Amp Hour Batteries)*
3B118CA 354 Amp Hours *(3 -118 Amp Hour Batteries)*
4B118CA 472 Amp Hours *(4 -118 Amp Hour Batteries)*
6B118CA 708 Amp Hours *(6 -118 Amp Hour Batteries)*

Batteries are 12V AGM (absorbed glass mat sometimes called starved electrolyte) batteries, a lead acid technology which traps the electrolyte in a fine fiberglass mesh. AGM's are spill-proof, maintenance-free, highly recyclable and more tolerant of temperature extremes than Gel cells. Each battery is rated for 118 AHr at the 100 hr rate. Uses brass insert, plastic-clamping knobs for easy wiring.

Battery ID	AH Capacity @ 100 Hour Rate	Dimensions (Inches)	Weight (Pounds)	Operating Temperature
B118CA	118 AHr	8.93" x 12" x 6.6"	66 lbs.	-40°F (-40°C) to +160°F (72°C)

A Note on Battery Storage and Battery Life: PV design standards call for at least 5 days storage to maximize battery life and ensure reliability. Greater storage may be required depending on the solar resource and the temperature conditions of your location. Colder temperatures reduce the effective capacity of batteries in winter, increasing the need for battery storage. An undersized system will perform in the short term, but frequent deep cycling will significantly reduce battery life over time. Your Philips Gardco quotation will incorporate your requirements and provide storage for trouble free operation.

BATTERY ENCLOSURES[1]

IG4 In Ground Enclosure, 4 Batteries
IG6 In Ground Enclosure, 6 Batteries

In-Ground Battery Enclosures provide an alternative to pole mounted battery storage, even in less than ideal environments. In-ground temperature management, and a concealed in-ground location adds worry-free assurance that your system will be safe from vandals and tamper resistant. Available in a variety of sizes to fit your system. The enclosure body is constructed from fiber reinforced polymer. The cover is made of a lighter and stronger Polymer Concrete, capable of withstanding over 20,000 pounds of wheel load pressure. Polymer Concrete covers provide easy access, and secure protection with 4 possible bolt down locations.

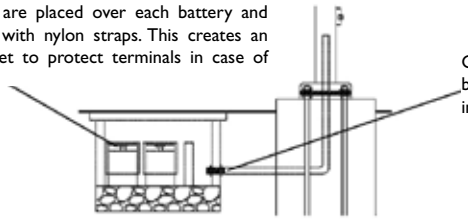
Enclosure	Battery Capacity	Dimensions (Inches)	Weight (Pounds)	Quantity of Bell-Jar Covers
IG4	4 -118 AHr	33" x 20" x 18"	134 lbs.	4
IG6	6 -118 AHr	50.13" x 32.5" x 18"	380 lbs.	6

One Bell Jar cover is included per battery with your In-Ground Battery Enclosure Assembly. A bell jar system forms a chamber at the top of a battery that traps air over the battery terminals and related hardware during flood conditions. The trapped air will prevent the terminals and related hardware from becoming immersed in water even if the vault is completely flooded.

OPTIONS[1]

MD[2] Motion Detector
GW[3] Ground Wire - Embedded
GR[4] Ground Rod Kit

Bell-jars are placed over each battery and secured with nylon straps. This creates an air pocket to protect terminals in case of flooding.



Conduit may enter side of enclosure OR come from below (enclosure bottom is open) Conduit not included.

IMPORTANT NOTES

1. Solar equipment is manufactured by SolarOne® Solutions, Inc. Equipment is available only as part of a total Philips Gardco Solar Area Lighting System. A Philips Gardco factory quotation for the system must be obtained prior to ordering. Solar equipment warranty provided by SolarOne® Solutions, Inc.

2. Vandal Proof Motion Detector housing and lens are impact resistant. The detection pattern is ideal for an 8 to 10 foot mounting height. It may be used with the So-Bright™ System Manager (MPT). It contains three rotary dials to adjust sensitivity to motion, timeout, and sensitivity to daylight. 180 Degree Detection Angle.

3. For transient suppression Philips Gardco strongly recommends grounding the negative battery terminal to earth. This Copper Ground Wire, embedded in the footing prior to installation, is recommended. If wire cannot be embedded, a copper ground rod (GR Option) may be substituted. Bare Copper, 4 AWG Strand, 25 foot wire.

4. For transient suppression Philips Gardco strongly recommends grounding the negative battery terminal to earth. This Copper Ground Rod maybe used where no footing is being poured. Otherwise a Ground Wire may be embedded when the footing is poured. Includes 8' bare copper, 8AWG strand wire; 8'x 5/8" copper plated steel rod and copper alloy, 5/8" single bolt nut for #8 to 10 wire gauge.

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