

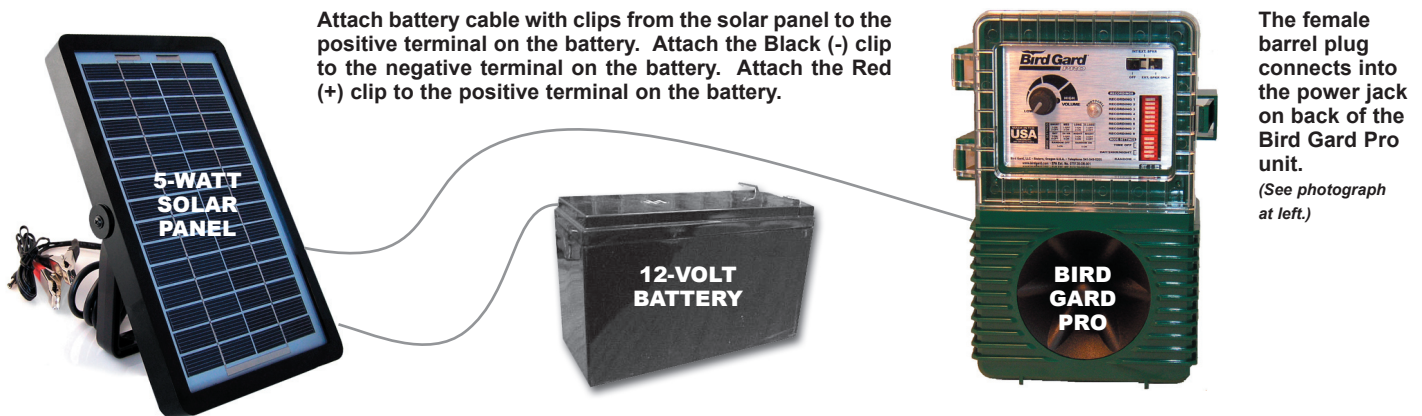
# 5-Watt Solar Panel Instructions

This solar panel with mounting kit is designed to keep a 12-volt storage battery fully charged throughout the critical growing, ripening or operational season without the need to replace or recharge the battery. The solar panel and mounting bracket is made to exacting standards and is designed to withstand the rigors of some of the harshest environments while continuing to perform efficiently. The solar panel circuitry is environmentally protected by glass within a polycarbonate frame for moisture resistance and superior structural strength in a rugged, durable frame.

Included with the complete solar panel assembly is the mounting bracket, battery cable with clips, and female barrel plug. This enables your solar panel to be easily attached to the Bird Gard Pro, as well as the 12-volt battery.

## CONNECTING

Attach the solar panel mounting bracket to a wooden post or flat surface, and adjust the desired angle for optimum use of sunlight. Then, attach the battery clips from the solar panel to the appropriate terminals on your 12-volt battery -- red clip to positive (+) terminal and black clip to negative (-) terminal. Next attach female barrel plug to the Bird Gard Pro by plugging into the back of the Bird Gard Pro unit. This correct attachment procedure will ensure that your 12-volt battery remains fully charged. **NOTE: Each solar panel must be used with a 12-volt battery (40 amp hour or greater or at least 400 cold cranking amps).**



## MAINTENANCE

The solar panel requires no special maintenance. Occasional cleaning with a mild solution of soap and water is recommended. Do not use hard abrasive cleaners, pads or solvents. Any cracks or minor breaks in the glass surface should be repaired immediately using transparent silicon caulking material. This is a temporary solution. Water or moisture leakage must be stopped or damage to your solar panel may occur. Check all connections regularly for corrosion or poor contact points. Clean or grease as needed.

### Site Latitude and Tilt Angle Guidelines:

<u>Site Latitude:</u>	<u>Tilt Angle:</u>
0° to 15°	15°
15° to 25°	Same as Latitude
25° to 30°	Latitude + 5°
30° to 35°	Latitude + 10°
35° to 40°	Latitude + 15°
> 40°	Latitude + 20°

### Product Specifications:

Maximum Power (Pmax):	5W ±5%
Voltage at Pmax (Vmp):	15V ±5%
Current at Pmax (Imp):	275mA ±10%
Short-circuit current (Isc):	334mA ±5%
Open-circuit voltage (Voc):	≥15V
Dimensions:	11¼" x 8" x 1¼" (28.6 x 20.3 x 3.2 cm)
Weight:	2.5 lbs. (1.13 kg)
Battery cable length:	6 feet (1.83 meters)
Power jack cable length:	4.5 feet (1.37 meters)



P.O. Box 1690 • 254 West Adams Avenue • Sisters, Oregon 97759 U.S.A.  
Toll-Free: (888) 332-2328 • Phone: (541) 549-0205 • FAX: (541) 549-5286  
info@birdgard.com • www.birdgard.com • EPA Est. Number 075130-OR-001

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