

Smart DC Remote Power Supply

The HySecurity Smart DC Remote Power Supply provides an optional power source for Smart DC gate operators that are configured for solar-power. The kit converts high voltage AC power into low voltage DC power which eliminates the need for solar panels. Low voltage wire is run out to the gate operator while the power supply remains in garage or shed plugged into the AC power source.

NOTE: To install the Smart DC operator on site, follow the separate installation instructions that accompany the gate operator.

To install the Smart DC Remote Power Supply, review the illustrations and the steps found on the following pages.

Tools required

- Pliers for crimping
- Wire cutter

Power Supply Dimensions

Inches: 6½ L x 2½ W x 1¾ H
Millimeters: 167 x 67 x 35

Power Cable and Wire Connections

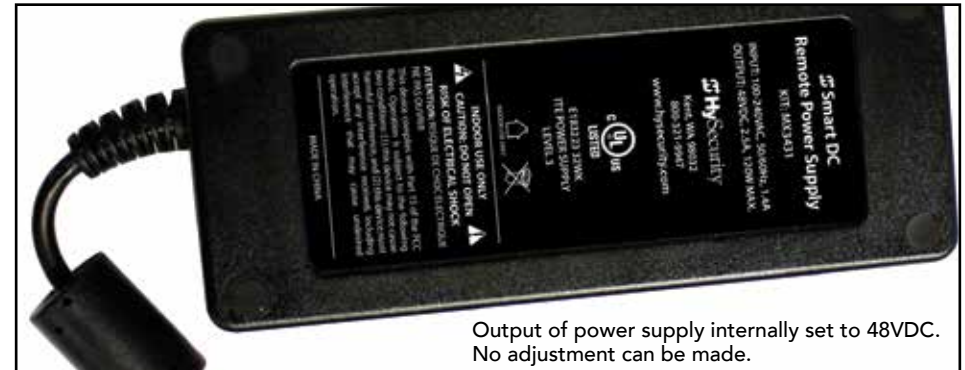
Follow the steps to secure power connections. Wire size and appropriate distance run to operator is shown in Table 1.

NOTE: The Smart DC Remote Power Supply must be located in a cool, dry location. Examples include: Off the floor in a garage or inside a weather tight shed.

Table 1: Wire Size to Maximum Run

Wire size*	Maximum Run 100% Duty Cycle	Maximum Run 50% Duty Cycle	Voltage Rating for Direct Buried Cable
12 AWG	400 ft (122 m)	800 ft (244 m)	300V
14 AWG	250 ft (76 m)	500 ft (152 m)	300V
16 AWG	175 ft (53 m)	350 ft (107 m)	300V

*Other cable sizes not recommended.



Output of power supply internally set to 48VDC. No adjustment can be made.

- 1 Verify BT (Battery Type) in the Installer Menu is set to "STANDARD."**

To access the Installer Menu, press the MENU button twice. Then, simultaneously press and hold OPEN and RESET. Release the buttons. Press NEXT to scroll to BT. If BT is not set to STANDARD, press SELECT, and then NEXT to change what setting is displayed. When STANDARD appears, press SELECT.
- 2 Trench and install in-ground cable. To protect cable wire, conduit is recommended.**

SwingSmart operator shown as reference only.

Run a "two conductor" power cable from the Smart DC Remote Power Supply location to the HySecurity Smart DC gate operator.



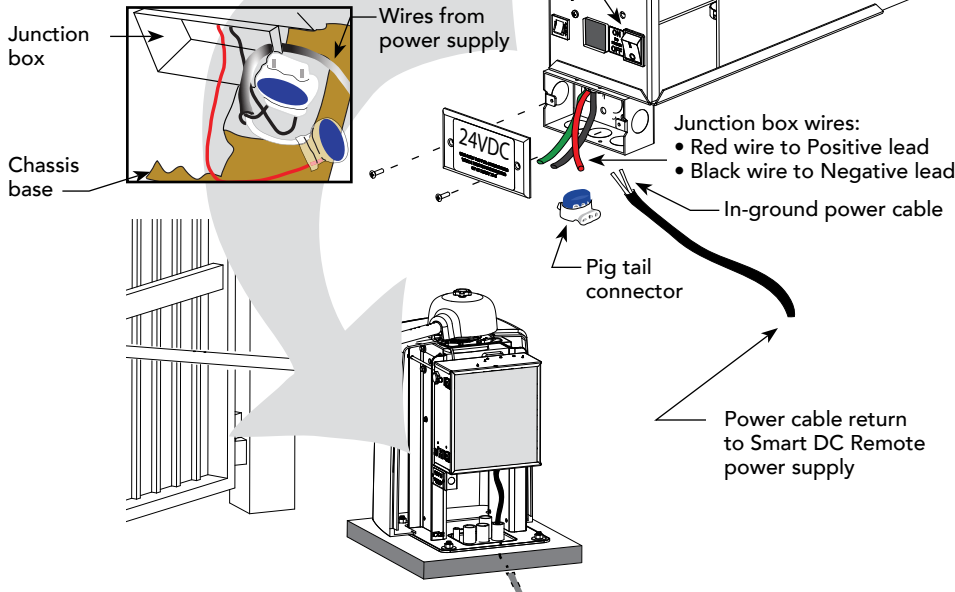
Make sure all power switches are in the OFF position. Follow all electrical code standards and regulations.

2 Connect wire leads to junction box.

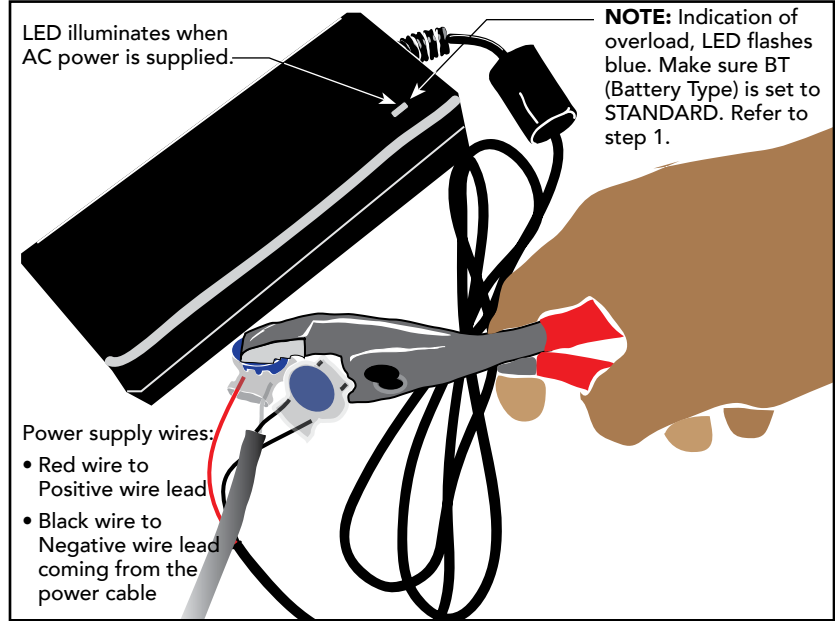
Insert the wires into the supplied pig tail connector:

- Red wire from the junction box with Positive wire lead coming from the power cable
- Black wire from the junction box with Negative wire lead coming from the power cable

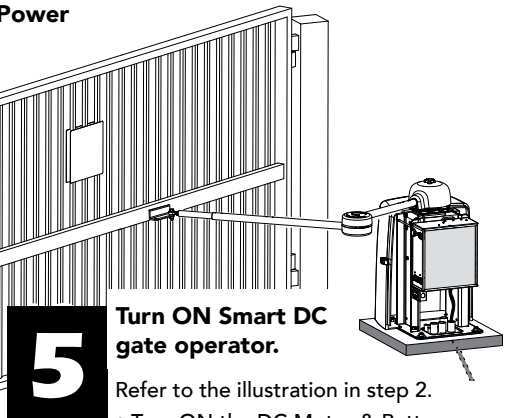
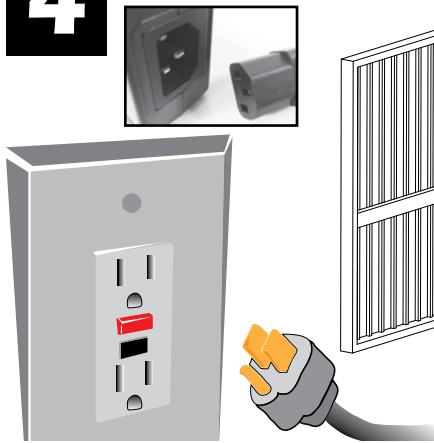
Crimp the pig tail using pliers as shown in the photo.



3 Connect in-ground power wire to Smart DC Remote Power Supply.



4 Connect Smart DC Remote Power Supply to AC power.



- Turn ON the DC Motor & Battery power switch first. The display lights indicating power is being supplied through the batteries.
- Turn On the Solar Panel power switch. In this case, it is connected to the Smart DC Remote power supply.