

# QUICK INSTALLATION GUIDE MAX SOLAR CONTROL BOX



Steel housing  
Two layers protection  
Gold zinc  
Electrostatic  
Powder-Coating

**SOLAR MODE**  
Switch to enable  
low power draw  
for solar mode

Gold plated  
automobile connectors  
through-out the system

Loop Rack  
**OPTIONAL**

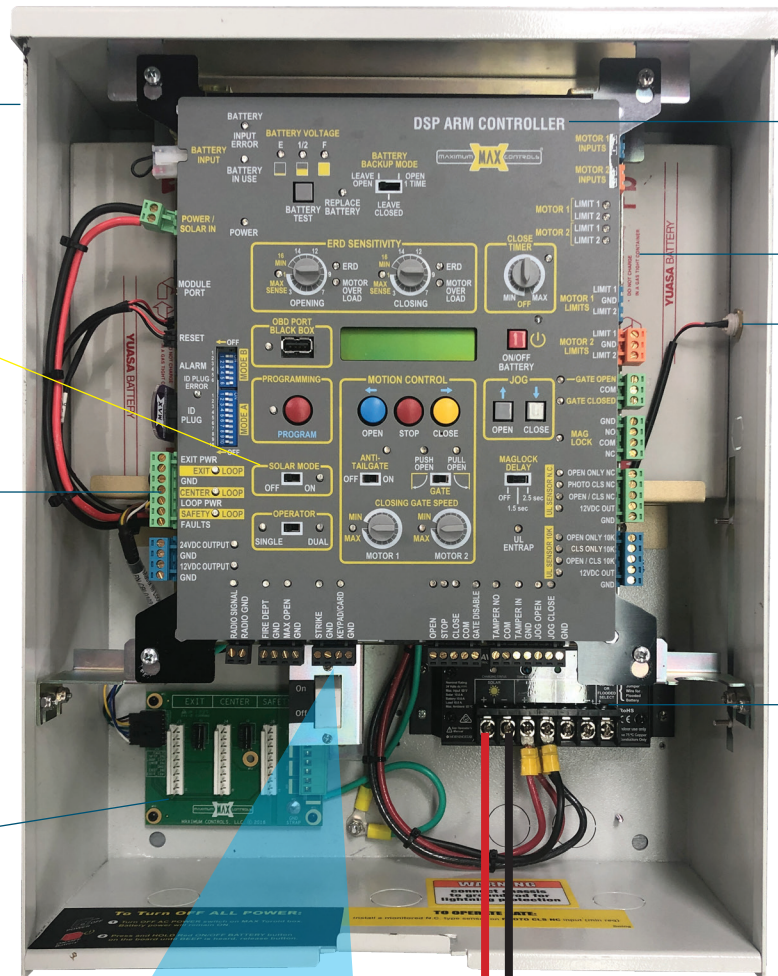
Control Panel

Two 12V 18 AH  
(AGM Rechargeable Batteries)

UL Reset Button

Jog Switch  
**OPTIONAL**

Solar Regulator  
24V, 10A  
(Morning Star)



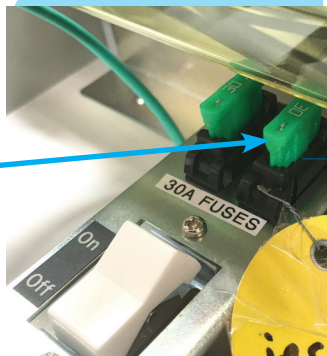
V(+)

GND

Wire solar panel terminals to  
solar regulator input  
**Caution: polarity matters**

**1**

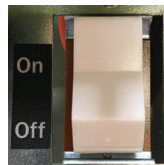
Insert the included  
fuse into the empty  
fuse slot (no polarity)



30A  
FUSE

**3**

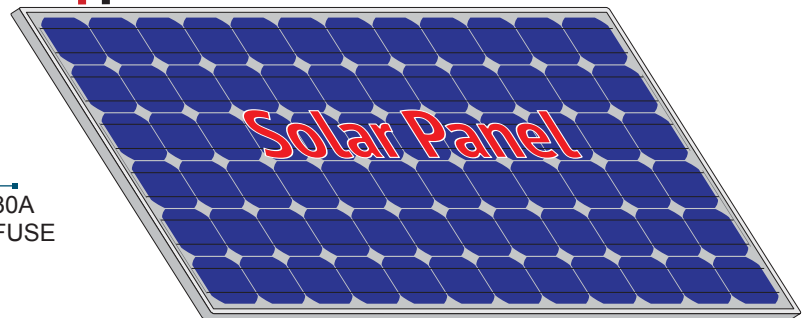
Turned ON the switch located directly  
underneath the fuses



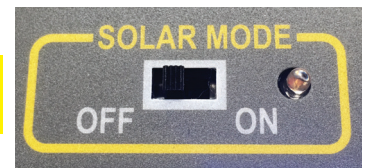
**4**

Leave the solar mode switch off and follow the included installation manual for  
standard installation and setup of limit switches

**DO NOT TURN ON THE SOLAR MODE SWITCH UNTIL INSTALLATION IS FINISHED**



24V Solar Panel  
Output: 36V (max) -  
Open Circuit



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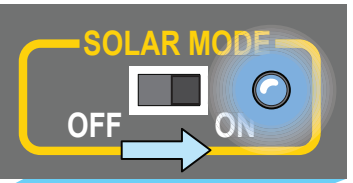


## 5 Turn SOLAR MODE ON

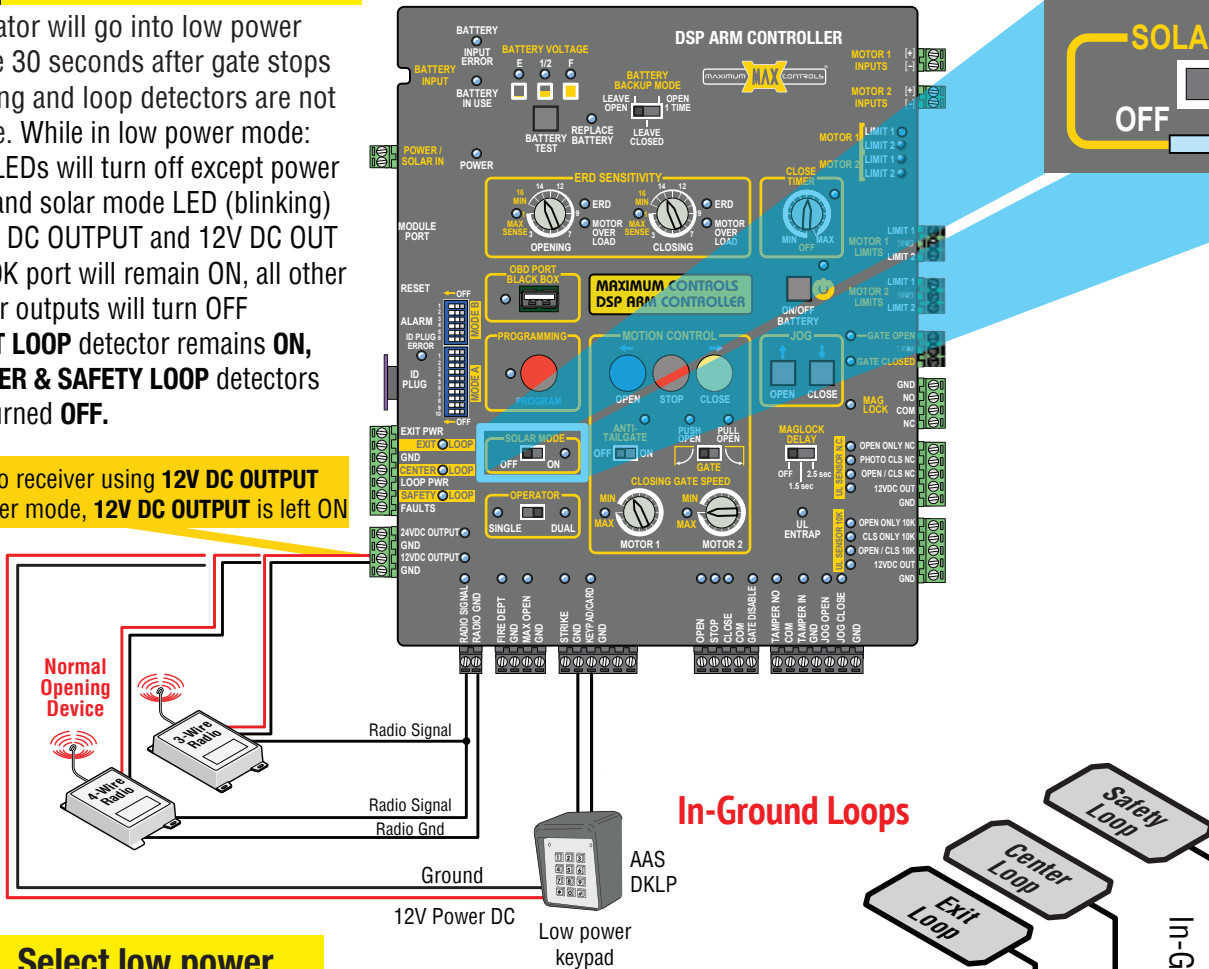
Operator will go into low power mode 30 seconds after gate stops moving and loop detectors are not active. While in low power mode:

- All LEDs will turn off except power LED and solar mode LED (blinking)
- 12V DC OUTPUT and 12V DC OUT on 10K port will remain ON, all other power outputs will turn OFF
- **EXIT LOOP** detector remains **ON**, **CENTER & SAFETY LOOP** detectors are turned **OFF**.

Turn SOLAR MODE ON.



Power radio receiver using 12V DC OUTPUT  
In low power mode, 12V DC OUTPUT is left ON



## 6 Select low power radio RECEIVER

For **OPTIONAL Loop Rack**

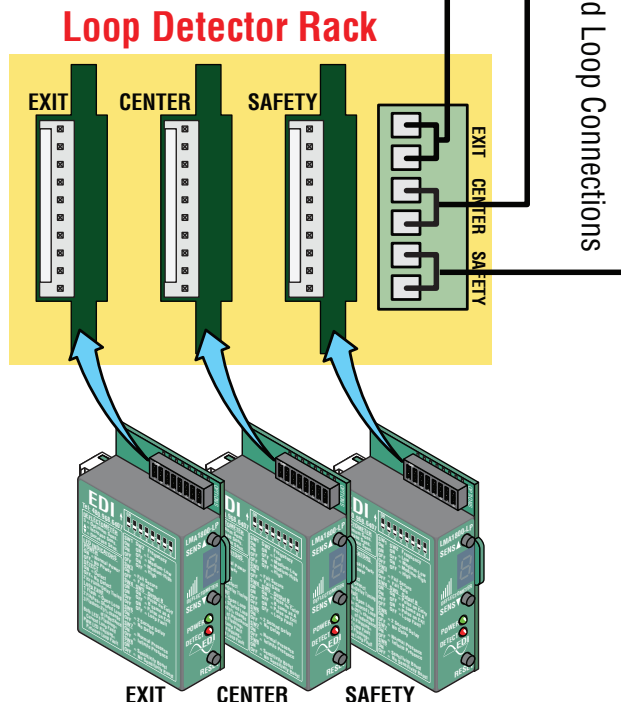
## 7 Select Low Power Loop Detectors

Recommended: Plug-In Loop Detectors  
EDI LMA1800-LP

**NOTE:** While in low power mode, **EXIT LOOP** detector remains **ON**, **CENTER & SAFETY LOOP** detectors are turned **OFF**

## 8 OPTIONAL

Remove local 7A/Hr batteries from operator and **TURN ON** DIP Switch **MODE A -1**



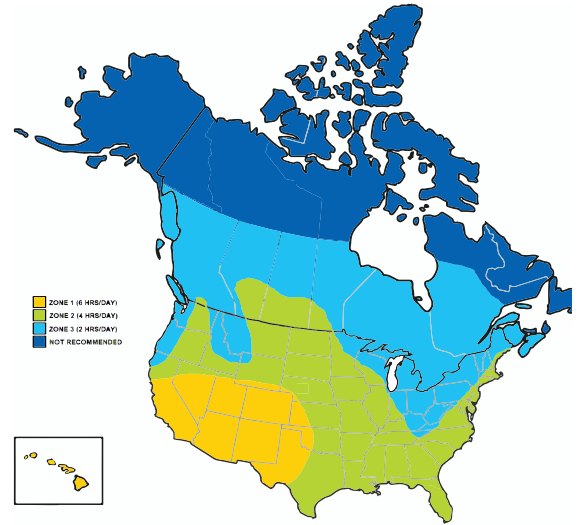
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## Select proper solar panel

### SWING, ACTUATOR

ACTUATOR		GATE SOLAR CYCLES PER DAY with built-in 18A/Hr battery					
		ZONE 1 (6 Hrs Sunlight/Day)		ZONE 2 (4 Hrs Sunlight/Day)		ZONE 3 (2 Hrs Sunlight/Day)	
PANEL SIZE	Total System Current Draw (mA)	Cycles/day w/1 rainy day	Cycles/day w/10 rainy days	Cycles/day w/1 rainy day	Cycles/day w/10 rainy days	Cycles/day w/1 rainy day	Cycles/day w/10 rainy days
60 W	26	1328	346	1233	252	1138	157
	50	1295	314	1197	215	1098	117
	100	1227	245	1121	139	1015	33
	200	1091	109	970	-12	848	-133
	250	1023	41	894	-88	765	-217
85 W	26	1442	460	1309	327	1176	195
	50	1409	427	1273	291	1136	155
	100	1341	359	1197	215	1053	71
	200	1205	223	1045	64	886	-95
	250	1136	155	970	-12	803	-179
120 W	26	1601	619	1415	433	1229	248
	50	1568	586	1379	397	1189	208
	100	1500	518	1303	321	1106	124
	200	1364	382	1152	170	939	-42
	250	1295	314	1076	94	856	-126
200 W	26	1965	983	1658	676	1351	369
	50	1932	950	1621	639	1311	329
	100	1864	882	1545	564	1227	245
	200	1727	745	1394	412	1061	79
	250	1659	677	1318	336	977	



The map and daily cycle rate shown are approximations based upon the average solar radiation and the temperature effects on batteries in the given regions. Local geography and weather conditions may require additional solar panels.

**USE LOW POWER** accessories in order to minimize power draw. Each additional accessory draws power affecting the daily cycle rate.