

PRO SERIES

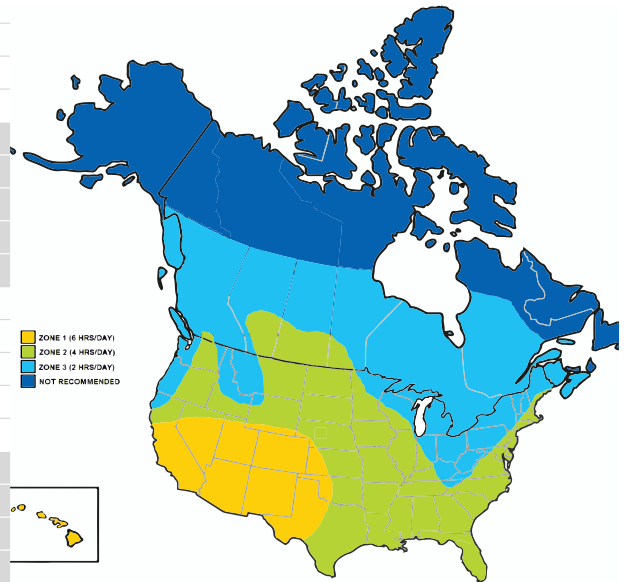
Solar Application Guide/Wiring



1 Select proper solar panel

SWING, PAD MOUNT, LIGHT GATE

MEGATRON PRO		GATE SOLAR CYCLES PER DAY with built-in 36A/Hr battery					
PANEL SIZE	Total System Current Draw (mA)	ZONE 1 (6 Hrs Sunlight/Day)		ZONE 2 (4 Hrs Sunlight/Day)		ZONE 3 (2 Hrs Sunlight/Day)	
		Cycles/day w/1 rainy day	Cycles/day w/3 rainy days	Cycles/day w/1 rainy day	Cycles/day w/4 rainy days	Cycles/day w/1 rainy day	Cycles/day w/5 rainy days
60 W	26	726	289	697	206	669	145
	50	716	280	686	195	657	133
	100	695	259	664	173	632	108
	200	655	218	618	127	582	58
	250	634	198	595	105	557	33
85 W	26	760	323	720	229	680	157
	50	750	314	709	218	668	145
	100	730	293	686	195	643	120
	200	689	252	641	150	593	70
	250	668	232	618	127	568	45
120 W	26	808	371	752	261	696	172
	50	798	361	741	250	684	160
	100	777	341	718	227	659	135
	200	736	300	673	182	609	85
	250	716	280	650	159	584	60
200 W	26	917	480	825	334	732	209
	50	907	470	814	323	720	197
	100	886	450	791	300	695	172
	200	845	409	745	255	645	122
	250	825	389	723	232	620	97



SWING, PAD MOUNT, HEAVY GATE

MEGATRON PRO		GATE SOLAR CYCLES PER DAY with built-in 36A/Hr battery					
PANEL SIZE	Total System Current Draw (mA)	ZONE 1 (6 Hrs Sunlight/Day)		ZONE 2 (4 Hrs Sunlight/Day)		ZONE 3 (2 Hrs Sunlight/Day)	
		Cycles/day w/1 rainy day	Cycles/day w/3 rainy days	Cycles/day w/1 rainy day	Cycles/day w/4 rainy days	Cycles/day w/1 rainy day	Cycles/day w/5 rainy days
60 W	26	454	181	436	129	418	91
	50	447	175	429	122	411	83
	100	435	162	415	108	395	68
	200	409	136	386	80	364	36
	250	396	124	372	65	348	21
85 W	26	475	202	450	143	425	98
	50	469	196	443	136	418	90
	100	456	183	429	122	402	75
	200	430	158	401	94	371	43
	250	418	145	386	80	355	28
120 W	26	505	232	470	163	435	108
	50	499	226	463	156	428	100
	100	486	213	449	142	412	85
	200	460	188	420	114	381	53
	250	447	175	406	99	365	38
200 W	26	573	300	515	209	458	131
	50	567	294	509	202	450	123
	100	554	281	494	188	435	107
	200	528	256	466	159	403	76
	250	516	243	452	145	388	61

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.

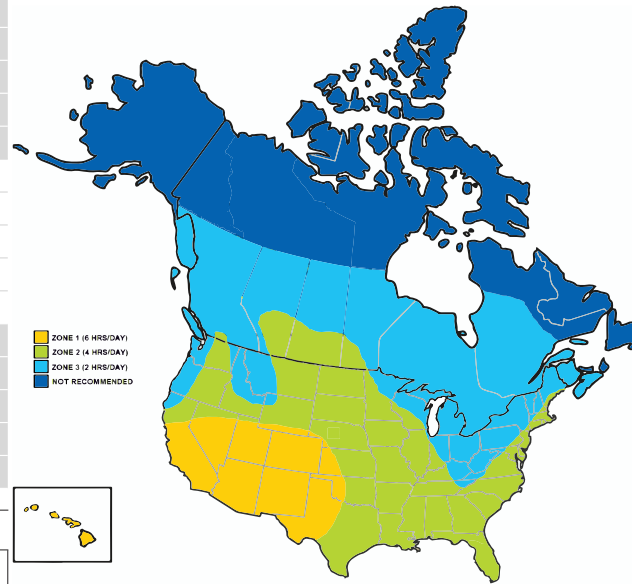
USE LOW POWER accessories in order to minimize power draw. Each additional accessory draws power affecting the daily cycle rate.

SWING, PAD MOUNT, LIGHT GATE

MAX SLIDER PRO

GATE SOLAR CYCLES PER DAY with built-in 36A/Hr battery

PANEL SIZE	Total System Current Draw (mA)	ZONE 1 (6 Hrs Sunlight/Day)		ZONE 2 (4 Hrs Sunlight/Day)		ZONE 3 (2 Hrs Sunlight/Day)	
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	250	396	124	372	65	348	21
85 W	26	475	202	450	143	425	98
	50	469	196	443	136	418	90
	100	456	183	429	122	402	75
	200	430	158	401	94	371	43
	250	418	145	386	80	355	28
120 W	26	505	232	470	163	435	108
	50	499	226	463	156	428	100
	100	486	213	449	142	412	85
	200	460	188	420	114	381	53
	250	447	175	406	99	365	38
200 W	26	573	300	515	209	458	131
	50	567	294	509	202	450	123
	100	554	281	494	188	435	107
	200	528	256	466	159	403	76
	250	516	243	452	145	388	61



SWING, PAD MOUNT, HEAVY GATE

MAX SLIDER PRO

GATE SOLAR CYCLES PER DAY with built-in 36A/Hr battery

PANEL SIZE	Total System Current Draw (mA)	ZONE 1 (6 Hrs Sunlight/Day)		ZONE 2 (4 Hrs Sunlight/Day)		ZONE 3 (2 Hrs Sunlight/Day)	
		Cycles/day w/1 rainy day	Cycles/day w/3 rainy days	Cycles/day w/1 rainy day	Cycles/day w/4 rainy days	Cycles/day w/1 rainy day	Cycles/day w/5 rainy days
60 W	26	302	121	291	86	279	60
	50	298	116	286	81	274	55
	100	290	108	277	72	263	45
	200	273	91	258	53	242	24
	250	264	82	248	44	232	14
85 W	26	317	135	300	95	283	65
	50	313	131	295	91	278	60
	100	304	122	286	81	268	50
	200	287	105	267	63	247	29
	250	278	97	258	53	237	19
120 W	26	336	155	313	109	290	72
	50	332	151	309	104	285	67
	100	324	142	299	95	275	56
	200	307	125	280	76	254	36
	250	298	116	271	66	243	25
200 W	26	382	200	344	139	305	87
	50	378	196	339	134	300	82
	100	369	188	330	125	290	72
	200	352	170	311	106	269	51
	250	344	162	301	97	259	40

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.

2 Select solar regulator

- Use 24V, 20A Regulator for 33Ah Battery
- Use 24V, 30A Regulator for 50Ah Battery

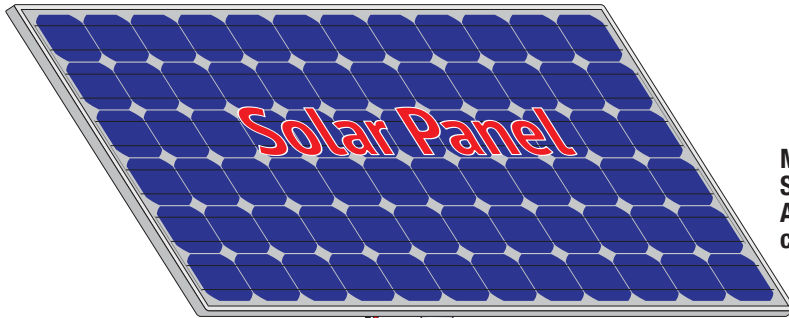
Suggested Solar Regulators:

Morning Star SunSaver OR Morning Star SunSaver MPPT

Output: 36 V (max) - Open Circuit

PRO SERIES

Solar Application Guide/Wiring



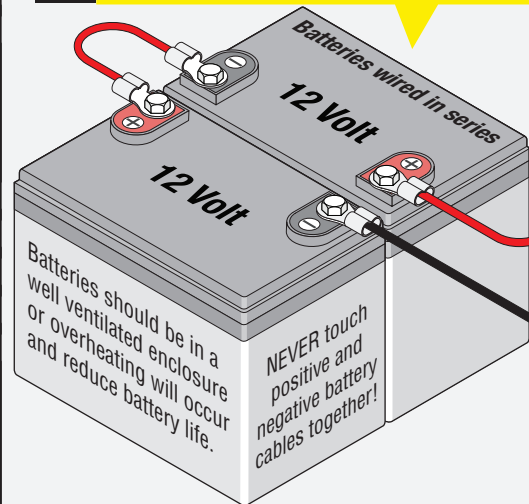
NOTE: Cover solar panel from sunlight **BEFORE** wiring to prevent a shock from occurring.

NOTE: For more information about solar panel wiring, see **your** chosen panel's manual.

MAX Solar Adapter cable

3 Connect solar panel to regulator

4 Connect batteries to regulator

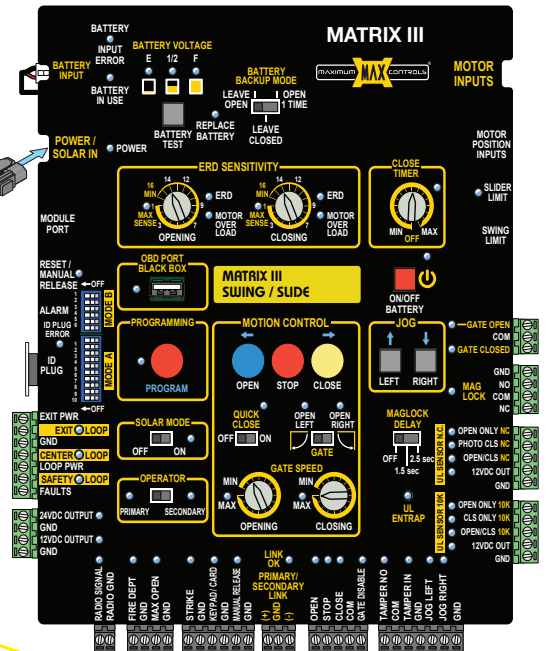


Two 12 V Batteries (24V)
Use AGM battery type.

Use insulated tools and avoid placing metal objects near the batteries.

Pos + Red
Polarity Matters!
Neg - Black

DANGER
HAZARDOUS CURRENT



5 Connect solar regulator to Power/ Solar IN MATRIX III

Enclosure

Install components in water resistant well ventilated enclosure.

Properly Ground Enclosure.

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Solar Application Guide/Wiring

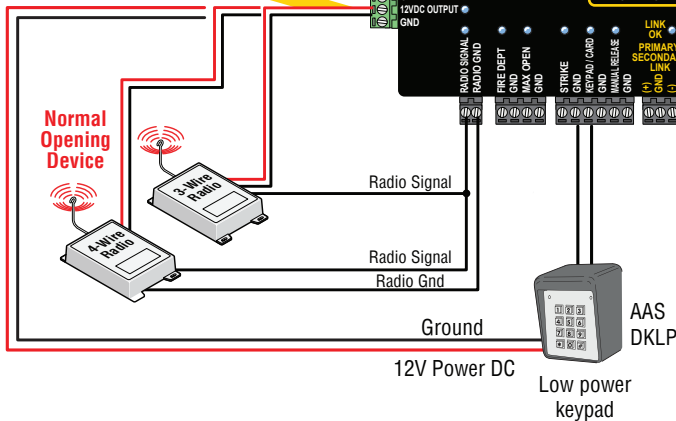


6 Turn SOLAR MODE ON

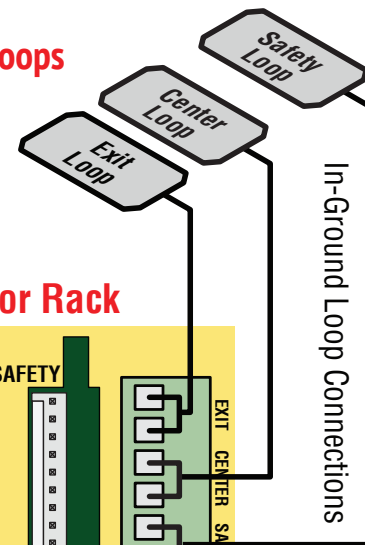
NOTE: Operator will go into low power mode 90 seconds after gate stops moving and loop detectors are not active

7 Select low power radio RECEIVER

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



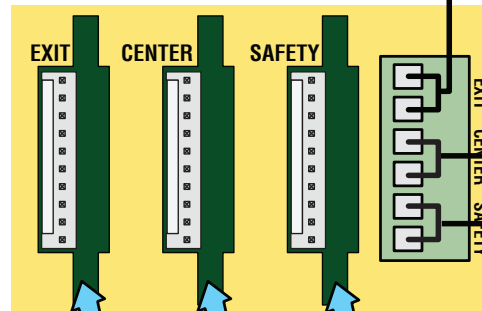
In-Ground Loops



8 Select Low Power Loop Detectors

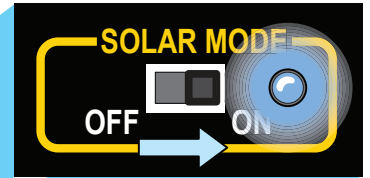
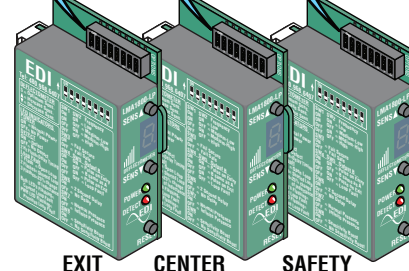
Recommended: Plug-In Loop Detectors
EDI LMA1800-LP

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



9 OPTIONAL

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



Turn SOLAR MODE ON