CHAMBERLAIN®

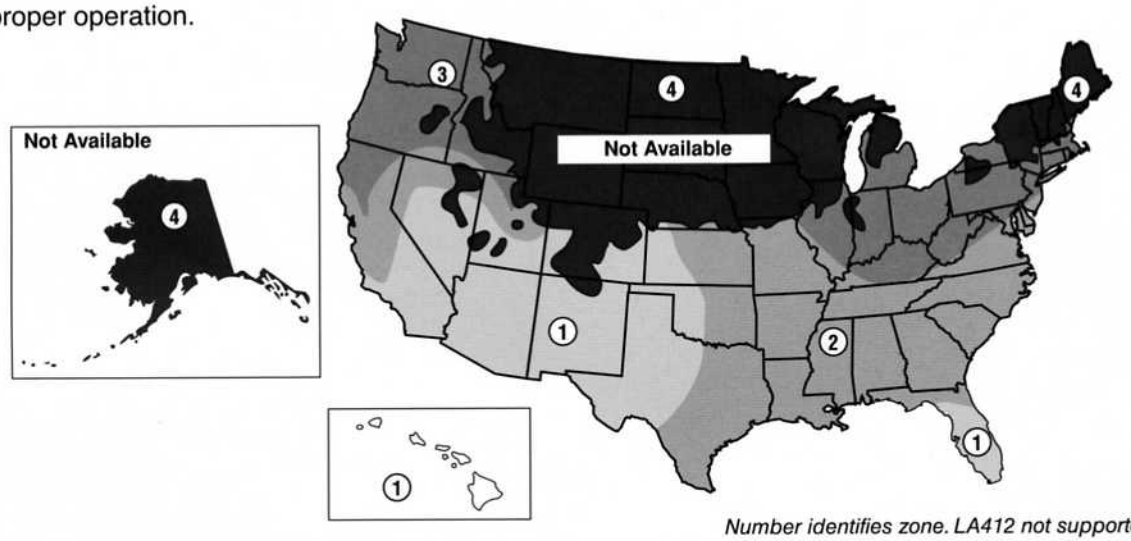
LiftMaster®

LA412 Solar Gate Access System Daily Cycle Chart

The LA412 Solar Gate Access System utilizes the innovative EverCharge® Power Management System to deliver power when needed most for operating a gate while minimizing power consumption at all times. Power is provided to the gate operator via batteries. The batteries are charged from a solar panel(s) connected to the operator control board. The number of solar panels required is determined by whether the application is for a single or dual gate, daily cycle rate, number of accessories and region of the country.

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. Solar Friendly or Wireless Accessories are recommended in order to minimize power draw, as added accessories draw power and affect the daily cycle rate.

Solar panel(s) must be located in an open area clear of obstructions and shading for the entire day. Snow, heavy fog or heavy rain affect solar panel performance and charge rate. The LA412 is not supported in climates where temperatures reach below -4F. This is due to the affect of cold weather on batteries and a reduced number of hours of sunlight during the winter months. Cycle rate may vary from solar chart for areas that reach below 32F. Optional external power reserve model BIGBTYKIT (80AH battery not included) recommended for applications that reach below 32F (and above -4F) for more than 2 consecutive weeks during the winter months. Solar panels should be cleaned regularly to ensure proper operation.



Number identifies zone. LA412 not supported/available in Zone 4

NUMBER OF CYCLES PER DAY Single Arm Installations					
			Zone 1	Zone 2	Zone 3
10W SOLAR	1 PANEL	Arm Only	50	40	12
		Accessories			
		Solenoid Lock(SGLOCK12V)	50	35	10
		Loop(LD7LP)	50	31	10
		Exit Loop(LM202)	50	31	10
20W SOLAR	2 PANEL	Arm Only	50	50	28
		Accessories			
		Solenoid Lock(SGLOCK12V)	50	50	25
		Loop(LD7LP)	50	50	26
		Exit Loop(LM202)	50	50	26
30W SOLAR	3 PANEL	Arm Only	50	50	46
		Accessories			
		Solenoid Lock(SGLOCK12V)	50	50	40
		Loop(LD7LP)	50	50	44
		Exit Loop(LM202)	50	50	44

NUMBER OF CYCLES PER DAY Dual Arm Installations					
			Zone 1	Zone 2	Zone 3
10W SOLAR	1 PANEL	Arms Only	50	25	8
		Accessories			
		Solenoid Lock(SGLOCK12V)	50	23	7
		Loop(LD7LP)	50	23	6
		Exit Loop(LM202)	50	23	6
20W SOLAR	2 PANEL	Arms Only	50	50	20
		Accessories			
		Solenoid Lock(SGLOCK12V)	50	50	18
		Loop(LD7LP)	50	50	18
		Exit Loop(LM202)	50	50	18
30W SOLAR	3 PANEL	Arms Only	50	50	30
		Accessories			
		Solenoid Lock(SGLOCK12V)	50	50	27
		Loop(LD7LP)	50	50	28
		Exit Loop(LM202)	50	50	28

**Only 50-220 photo eyes go into power save mode and minimize power draw when gate is not opening*

LMGSCCT