



SOLAR LOCKING SYSTEM

The Greenplate® Solar Automatic Locking System is ideal for locking and unlocking all facilities where required regardless of the mains power accessibility.

Currently council facilities are locked and unlocked manually by staff or contractors which can be both time consuming, expensive and some instances dangerous. By installing the Greenplate® Solar Automatic Locking System you then have a completely autonomous system saving on continuous running costs. The system requires minimal to no ongoing maintenance.



www.greenplate.com.au

Overview

The Greenplate® Automatic Solar Locking System uses a 12/24 volt DC power supply to control the operation of the DC electric door locks supplied from Assa Abloy.

By detecting sunset and sunrise via the solar module voltage the system at sunset will power up the locks causing them to close and at sunrise powers the locks causing them to release, this is all done via the pre-set solar controller.

An emergency lock override is also installed in each cubicle in the event of an accidental lock-in or injury the switch will override the locks.

A lockdown switch is also provided (located at the master control cabinet) to lock the doors continuously when switched on for servicing etc.

Why choose a Greenplate® Solar Locking System

Key Features and Benefits



Superior quality 12/24 volt locks used (Assa Abloy).



Complete stainless steel control cabinet.



Highest quality solar modules used; either monocrystalline panels or vandal resistant roof integrating panels.



Sealed 110AH batteries mounted in the master control cabinet 8-10 years expected lifespan.



Easy to install with all cabling included utilising quick connect MC4 connectors and spade terminals.



Huge cost savings for councils not having to employ contractors to open and close amenities buildings.



Simple installation guide and a 24VDC system means no electrician is required.



Highly efficient and rigorously tested over years of in field use.



General Information

Safe Low Voltage DC System

No Maintenance System

Simple Installation Guide

Huge Cost Saving Benefits Over Lifetime of The System

SOLAR PANELS

SunPower Mono Crystalline High Impact Glass Panel

Option of UniSolar PVL Laminated Vandal Resistant Panel onto Colourbond Roof Profile.

20.4% Panel Efficiency

Designed for the Harsh Australian Weather Conditions

BATTERY SYSTEM

110 /Ah High Quality Sealed Lead Acid Batteries

8-10 Years Expected Life Span on Batteries

The charging system is able to measure both the ambient and battery temperature varying the charge current to suit. This extends the lifetime of the batteries in hot and humid environments.

Battery Bank sized for 3-5 days autonomy

CONTROL CABINET

Complete Stainless-Steel Wall Mountable Vented Control Cabinet with Lock.

All Wiring is Preassembled and all Components Installed.

Secured Battery Compartment

Emergency Lock/Unlock Key Switches Installed on the Face of the Cabinet

Exceeds all AUS/NZ Standards.

SECURITY

Impact Resistant SunPower Solar Modules or Vandal Resistant PVL Laminated Panel System

Stainless-Steel Key Lock Cabinet Wall Mounted into the Cleaning Void

Keyed Emergency Overrides for Locking or Unlocking Cubicles

Cubicle Panic Button Releases Locks for 20 Seconds

SYSTEM PERFORMANCE

Proven Reliability and Performance

Suited to All Australian Conditions

Extra Power Options for Pumps or Lighting is Available

Complete Custom Open and Closing Times are also Available

WARRANTY

System is warranted for 3 (three) years replacement parts (Conditions Apply)

Solar Warranted for 20 (years) limited Warranty (Conditions Apply)

All electrical work must be carried out by appropriate electrical licenced personnel in accordance with the national wiring rules

GREENPLATE PTY LTD HEAD OFFICE

2/15 Natasha Street, CAPALABA QLD 4157

E info@greenplate.com.au

P +61 07 3245 3008

F +61 07 3245 3009

W www.greenplate.com.au



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