



# SmartSolar™

Solar Power for Automatic Technology Openers

## SmartSolar™ Compatible Automatic Technology Door & Gate Openers

There is no need for compromise when the world's best openers operate with the world's cleanest power source.

### GDO-6v2 EasyRoller®

The GDO-6v2 **EasyRoller®** Roll Up Door Opener combines smart electronics with proven and robust mechanics to handle the largest of residential applications. Built into a slim chassis, this opener only needs a skinny 40mm of sideroom for installation.



### GDO-9v1 SecuraLift®

The GDO-9v1 **SecuraLift®** Overhead Garage Door Opener is a synergy of immense power, smart systems and super quiet operation. Amongst this feature rich opener's standouts are LED lighting, a pre-assembled C-Rail, and a range of safety and operating modes.



### SecureSwing™

Suitable for single and dual gates, the **SecureSwing™** Swing Gate Openers combine smart logic controls with low profile drive arms to handle single leaf gates up to 2.5m in length. Plus, with a small sideroom requirement they allow even tight installations to have automation.



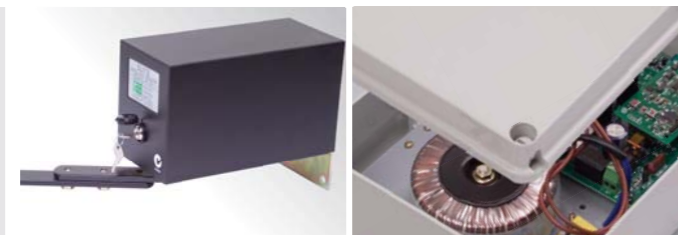
### SecureSwing S™

Combining European influenced styling with proven logic controls, the **SecureSwing S™** Swing Gate Opener is ideal for single and dual gate installations. Using a revolutionary screw drive system, these flush mounted drive arms will a single gate leaf up to 4.0m in length.



### SGO-1v3 Elite™

A proven and robust performer, the SGO-1v3 **Elite™** Swing Gate Opener will handle the most serious of residential applications including a single gate leaf up to 4.5m in length. Combined with intelligent logic controls, the **Elite™** offers many control options and operating modes.



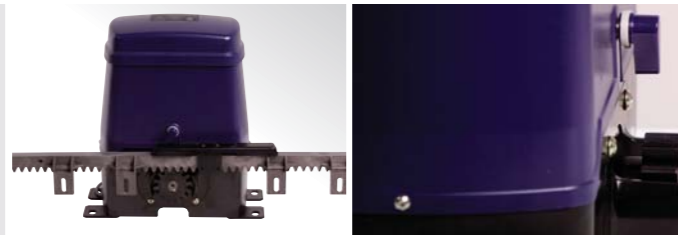
### ESV-24 EasySlider®

Automating gates up to 5.7m in length the **ESV-24 EasySlider™** Sliding Gate Opener, with ALPS limit technology, features an integrated logic control with LCD display. This allows for intuitive setup and management of operating functions, access functions and input controls.



### ESV-24MS EasySlider®

The **ESV-24MS EasySlider™** Sliding Gate Opener's microswitch limit system allows sliding gates up to 10.0m to benefit from automation. Features include an LCD menu display, variety of input controls, auto-close and numerous operating modes.



## from gate to garage

SmartSolar™ Technical Specifications*	Garage Door	Slider	Swing Gate
Load voltage	24V	24V	24V
Load continuous current	5A	5A	10A
Number of cycles per day	10	10	10
Average time cycle (opening and closing)	40 sec	90 sec	75 sec
Max. Standby Current	- Without P.E. Beams	100mA	100mA
	- With P.E. Beams	180mA	180mA
	- With 2 x P.E. Beams		260mA
Average total consumption current per day	- Without P.E. Beams	3Ah	3.7Ah
	- With P.E. Beams	4.8Ah	5.6Ah
	- With 2 x P.E. Beams		8.23Ah
Number of working (non-illumination) backup days	- Without P.E. Beams	3	3
	- With P.E. Beams	2	2
	- With 2 x P.E. Beams		1
Recommended storage battery capacity / voltage	12Ah / 24V	12Ah / 24V	18Ah / 24V
Battery recovery time (min charging time)	3.5h	3h	4h
Storage box size / weight (mm / kg)	250x200x160 / 19	250x200x160 / 19	250x200x160 / 28
Wire Gauge and Length from Battery to Charger board (max)	16AWG / 3m	16AWG / 3m	16AWG / 3m
Wire Gauge and Length from Panel to Charger board (max)	18AWG / 3m	18AWG / 3m	18AWG / 3m
Solar panel average rated output generation time per day (winter months)	4h	4h	4h
Solar Panel 30W (680x436x18mm, 3.2kg)	STP030-12	STP030-12	STP030-12
Solar Panel Output voltage / current	18V / 1.75A	18V / 1.75A	18V / 1.75A

\* Specifications provided are for the recommended solar panel for a southern Australian state or region receiving the minimum average of four (4) hours of daily sunlight during winter. 12, 20 & 30 watt kits are available to better suit areas with greater levels of daily sunlight. The full suite of specifications are available upon request from Automatic Technology.

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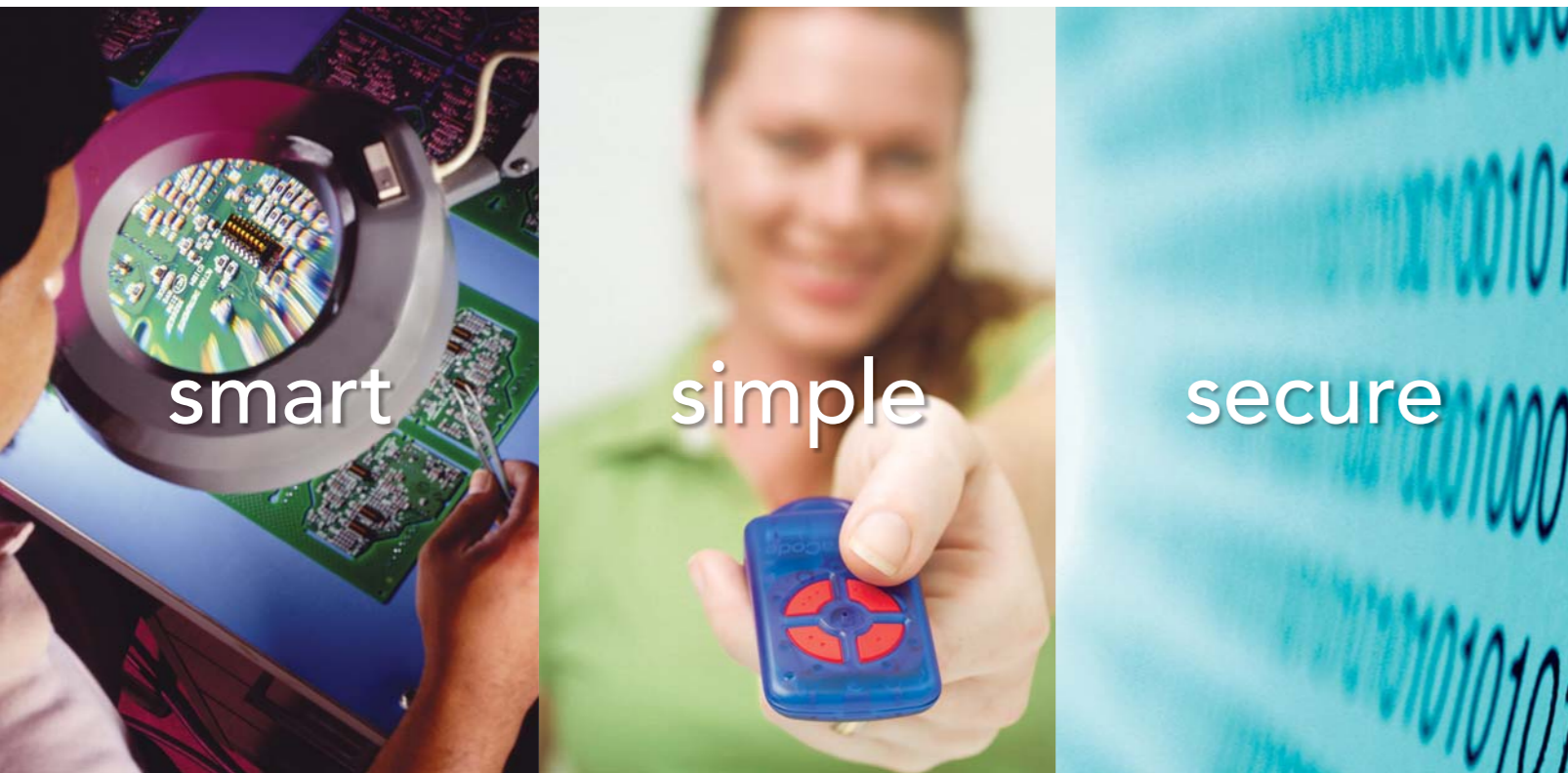
smart | simple | secure.

At Automatic Technology our every innovation, product and success is driven by those three words.

As we have done for the past quarter of a century, we continually strive to simplify your life by providing smarter access solutions.

Designed and engineered by our world renowned innovation gurus, Automatic Technology products define the future of automation through utilising the latest technology, processes and production methods to ensure every door and gate is indeed **smart, simple** and **secure**.

**SmartSolar™** Solar Power was created by these ideals, and contain the following features:



### Solar Power - the original smart, simple, secure option

Increasingly going "green" makes great sense, as you can both save the planet and save money at the same time!

With our eco-friendly **SmartSolar™** Solar Power range, you can select the best in home access solutions and run them free of charge using the sun's energy.

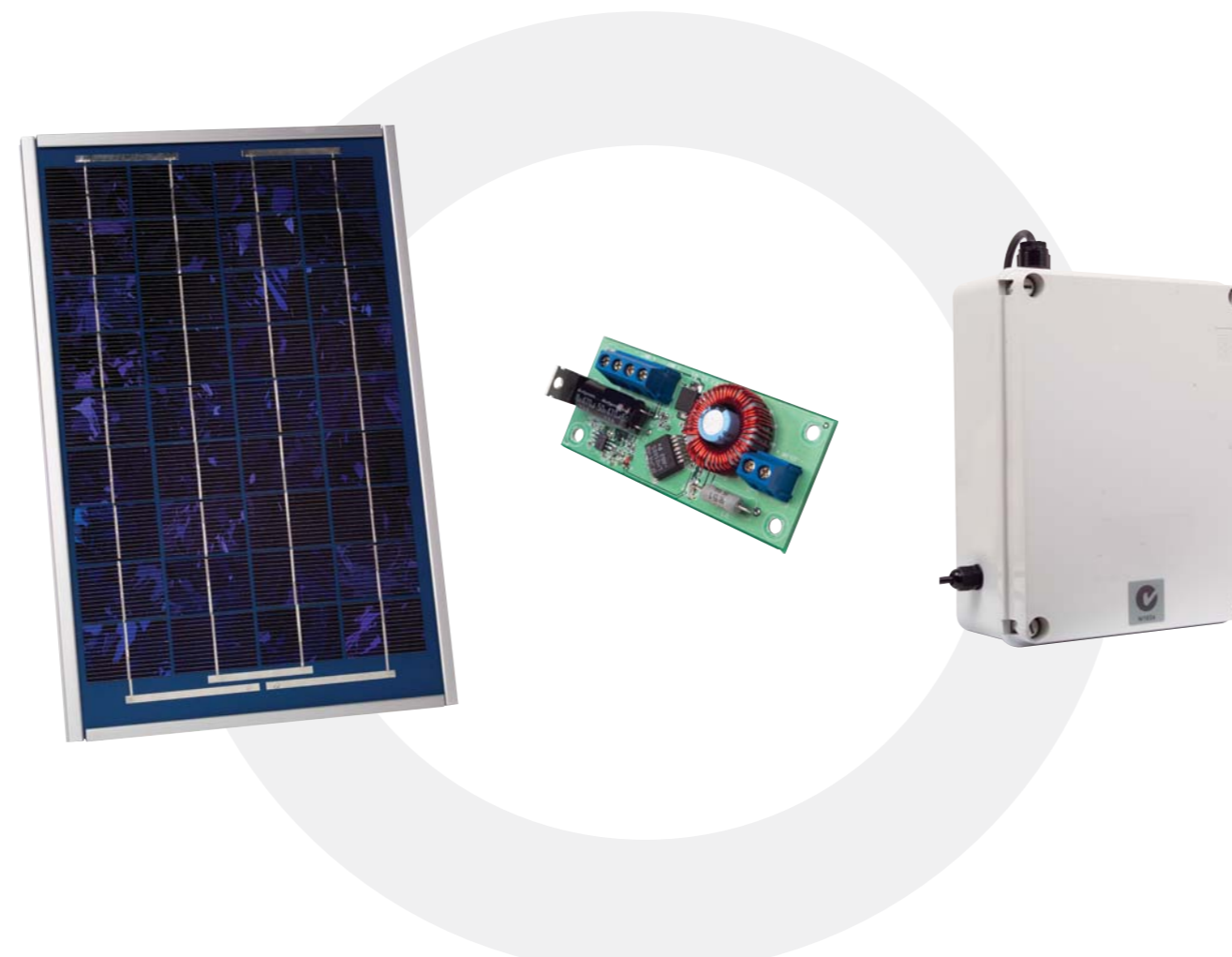
Better still, the incredibly energy efficient design of the **SmartSolar™** Solar Power range requires only a single solar panel per opener, slashing the cost of becoming planet friendly.

Part of our range of **SmartPlanet™ Solutions**, which includes our world leading standby power ratings, these technologies provide **smart, simple** and **secure** automation solutions for your home and family, as well as a brighter future for the planet.



# SmartSolar™

## SOLAR POWER KIT

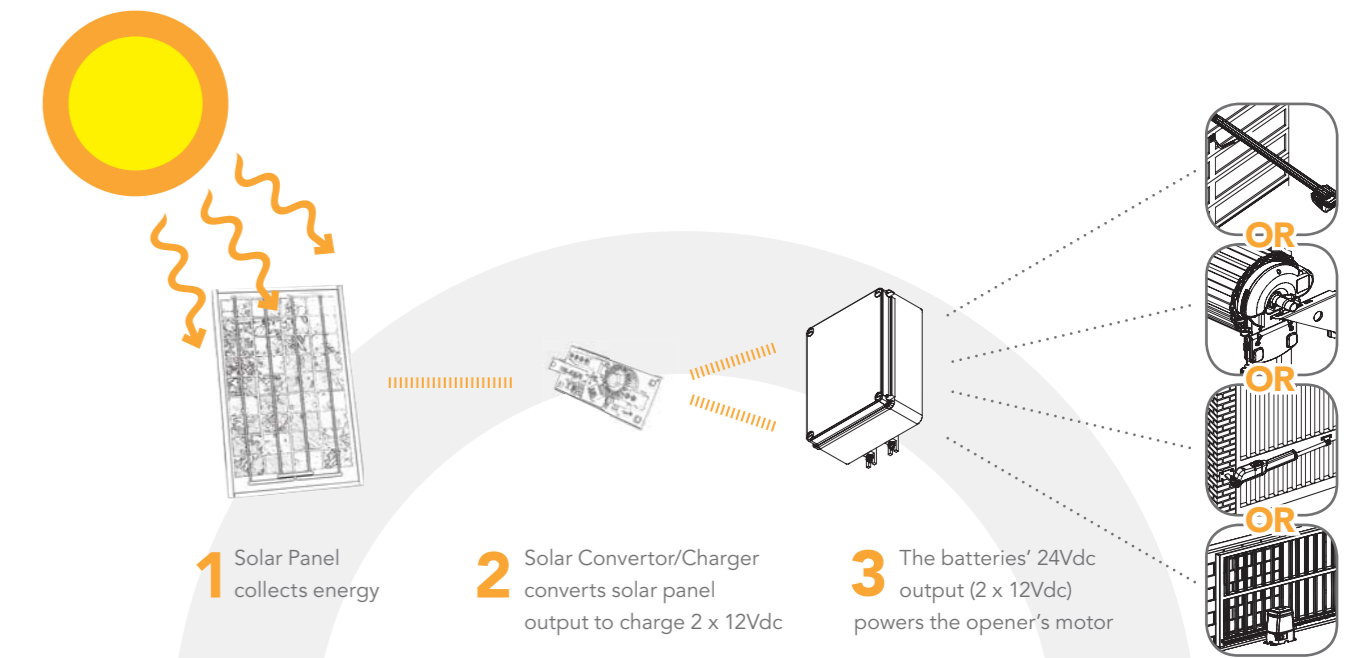


### SmartSolar™ Solar Power Kit Contents:

- 1 x Solar Panel (12W, 20W or 30W - depending on application) (above left)
- 1 x SOL-2 Converter/Charger Circuit Board (above centre)
- 1 x Battery Backup Kit (above right)

- requires as little as four hours of sunlight a day for normal residential operation
- only a single solar panel is required
- battery holds enough charge for night time operation, and up to three days of backup power
- only modification required is removal of the opener's existing mains transformer
- fully weather sealed components
- allows for integration of accessories such as P.E. Beams
- ready integration with door and gate openers for every residential application

## HOW IT WORKS



**1** Solar Panel collects energy

**2** Solar Converter/Charger converts solar panel output to charge 2 x 12Vdc

**3** The batteries' 24Vdc output (2 x 12Vdc) powers the opener's motor

### Halving the costs

The specially designed converter/charger board makes it possible to charge two 12Vdc batteries with only a single solar panel. The batteries' combined output then operates the opener's 24Vdc motor - just as a normal battery backup system would.

As the bulk of solar power setup costs come from purchasing enough panels, halving the number required is a affordability revolution.

### Cycles without sunshine

The opener operates off the battery pack meaning that at night or during short winter days a high number of cycles is possible. The solar panel only serves to charge the battery.

The equivalent of only four (4) daylight hours will provide enough charge for up to ten (10) cycles per day, or up to three (3) days standby power.

### Charging through the clouds

The SOL-2 SmartSolar™ Converter/Charger can still provide enough charge to the battery pack even with a 25% reduction in solar panel output due to overcast conditions.

### Limited winter sunshine

During the winter months the near entirety of Australia, receives a daily average of four (4) hours of sunlight. See the included Bureau of Meteorology map for average daily winter sunshine in your area.

