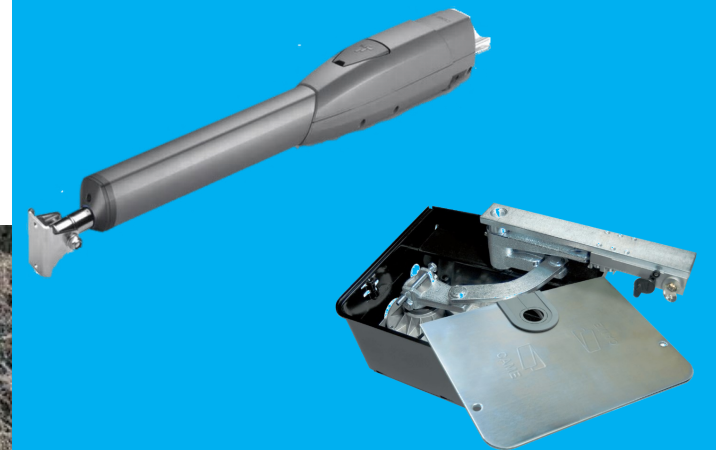


Gate Automation Direct  
Call: 01332 498960  
email: [sales@gateautomationdirect.co.uk](mailto:sales@gateautomationdirect.co.uk)  
[www.gateautomationdirect.co.uk](http://www.gateautomationdirect.co.uk)

All prices subject to change and plus vat at current rate



## SOLAR POWERED GATE AUTOMATION SYSTEMS



*GATE AUTOMATION DIRECT*

Call: 01332 498960 email: [sales@gateautomationdirect.co.uk](mailto:sales@gateautomationdirect.co.uk)

## FREE CAME CONNECT RGSM



**FREE GSM**  
**CONNECT MODULE**  
& 3 year **INCE** 480mb SIM

We also supply solar kits for sliding gates & Barrier systems, Call for details

01332 498960

We also offer an installation service for all types of gate automation systems and intercom

# COMPATIBLE WITH AMAZON ALEXA

Thanks to the optional Wi-Fi gateway that can be plugged directly onto the ZLB24-SA electronic board, FROG-X can connect to any router to enable remote management.

In addition to the Automation App that enables users to control the automation from a smartphone, it is also possible to use Amazon Alexa voice commands, to open and close the gate, stop it, or know its status.



## NO MAINS ELECTRICITY? NO PROBLEM.

- **Solar powered automatic gates -can locate literally anywhere**
- **Electricity supply NOT required – so no costly electric cables to lay**
- **Award Winning unique Winter Harvesting® solar panel mounts for superior solar performance**
- **State of the Art super efficient Brushless Technology motors and Smart MPPT solar chargers give huge number of daily openings**
- **TWO YEARS WARRANTY**
- **Unrivalled Support with optional Service Care Plan**
- **An open gate invites unwanted visitors, NOT ANYMORE! Now your gate can be fully secure**

# INTRODUCING KRX BUS

KRX makes traditional flashing lights smarter. No longer a simple warning system, KRX BUS lets you control and monitor your Frog-X automation directly from your smartphone.

KRX is a new range of flashing lights for entrance automation and control systems, consisting of three models – standard, KRX BUS and KRX CONNECT.

They are versatile and perfectly suited to any installation type, from private homes to apartment buildings and industrial complexes, with a modern, streamlined design.

By using the Setup App it is possible to customise your KRX BUS or KRX CONNECT with any different RGB colour.

For example, you could have a **Green** flashing light when the Frog-X performs the opening operation, and **Red** during the closing operation.

KRX CONNECT can also be configured in Bluetooth mode, allowing the control of the Frog-X via smartphone for up to 50 different users.



# Solar-powered Electric Gates

We offer a range of solar-powered electric gate solitons With our products, you can enjoy the convenience of automatic gates while also being environmentally friendly.

Our solar-powered electric gates offer a reliable and cost-effective way to secure your property. Our systems use solar panels to charge a battery which powers the gate's motor so you don't have to worry about electricity bills or power outages.

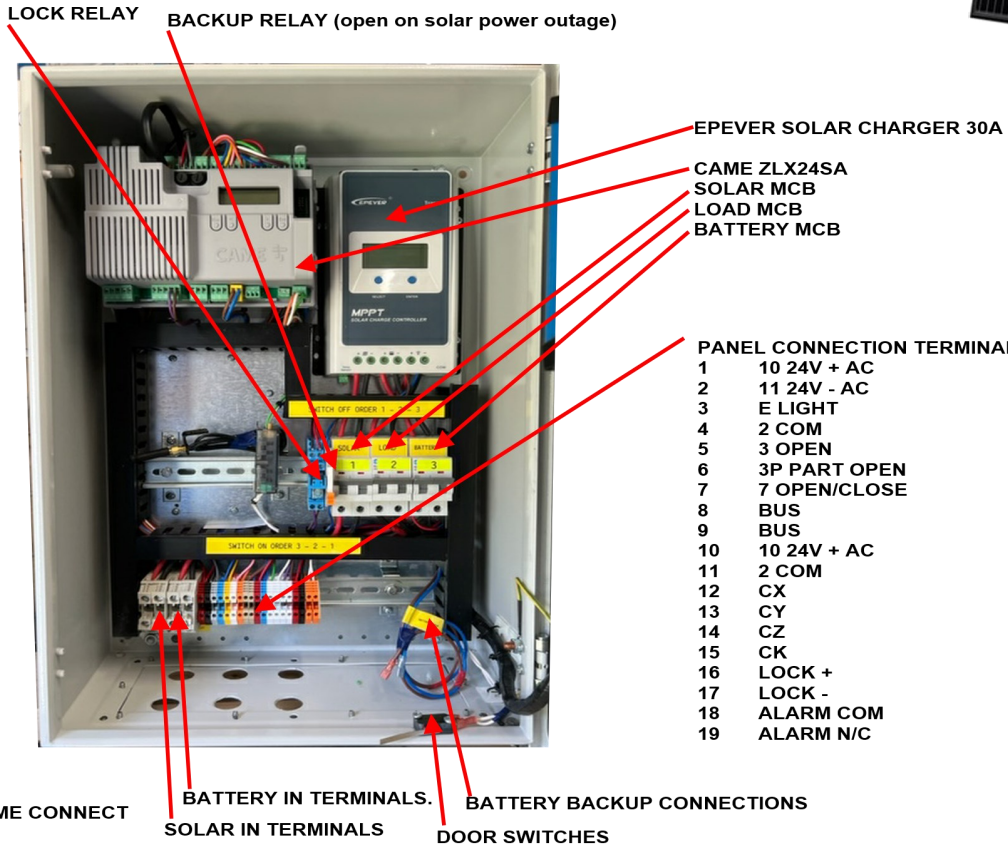
We can supply solar-powered electric gates for residential or commercial properties, and we offer a range of styles and designs to choose from.

At Gate Automation, we are committed to providing our customers with high-quality eco-friendly security solutions.

Our solar-powered gates are reliable.  
cost effective, & environmentally friendly.



- Complete kit with,
- 1 x Solar Charger
- 1 x DC-DC Converter
- 2 x 415w solar panels
- 4 x 110ah batteries
- All connection cables for cabinets
- Solar cables pair 10m
- CAME CONNECT for app control
- Door alarms for cabinets
- 1 X CAME DXR BUS Photocells
- 1 X Radio Card 433 mhz
- 1 x Tuned Antenna
- 2 x Rolling code Remotes
- 1 x battery monitor
- 1 x user manual

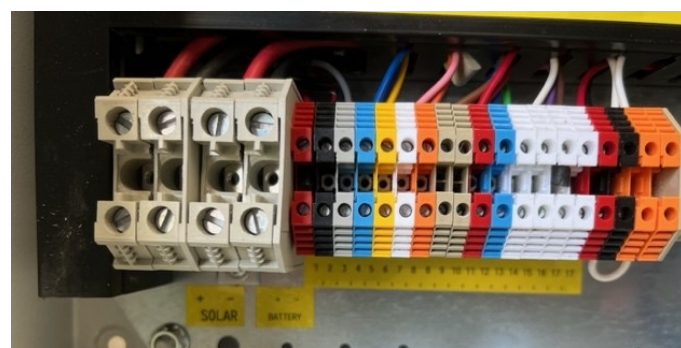


**Solar cabinets..** come pre-wired ready to run, Housed in a steel powder coated enclosure. Includes a EPEVER solar charger. Battery, Solar & Load Mcb's, door switch for door opened alarm reporting, (via **CAME Connect**).

Cabinet has a battery backup system if solar and battery power outage, gate's will report in (via CAME Connect) & automatically open, until power is restored With either of the following boards, CAME ZLX24SA control panel, for CAME ATS arms.

CAME ZLB24SA for the NEW CAME Frog X Underground SYSTEM.

DC-DC converter  
LED battery monitor



Full set of Connecting Terminals  
For battery, solar, Safety devices, keypads, CXN Bus Devices, battery cabinet alarm, Earthling rod connection & Battery backup connections

### Battery Cabinet..

4 X 110ah sealed batteries housed in a steel powder coated double door enclosure, with the following

Battery isolator, Door contact to report door open alarm, (via CAME connect) cabinet mounting brackets, battery cables and Terminals, cable & ducting supplied to, link battery cabinet to solar cabinet



## Solar Gate Opener Automation: Efficient and Cost-Effective

Solar-powered gate openers are quickly becoming a popular choice for both residential and commercial gate automation. They are powered by solar panels, which harness energy from the sun and convert it into power to operate the gate opener. This is an energy-efficient and cost-effective solution, as it eliminates the need for an external power source, saving money on electricity bills. In addition, solar-powered gate openers offer a more environmentally friendly option for gate automation, reducing the carbon footprint of the system and promoting the use of clean energy. They are especially useful in remote locations where electrical wiring may not be available, making them a great option for a wide range of properties.

In this article, we will explore how solar-powered gate openers work, their advantages over traditional gate openers, the types of solar-powered gate openers available, and how to install and maintain them. We will examine the different components of solar-powered gate openers, including solar panels, battery backup systems, and controller boards, and how they work together to provide a reliable and efficient gate automation solution. By the end of this article, you will have a comprehensive understanding of solar-powered gate openers and how they can improve gate automation while promoting energy efficiency and sustainability.

## Advantages of Solar Powered Gate Openers

Solar-powered gate openers offer numerous advantages over traditional gate openers. One of the most significant benefits is the ability to save money on electricity bills, as they rely on solar energy rather than an external power source. This makes solar-powered gate openers a cost-effective option in the long run. Additionally, solar-powered gate openers are an environmentally friendly solution, promoting clean energy and reducing carbon emissions. They are also highly versatile and can be used in remote locations where electrical wiring is impractical or not available. Moreover, solar-powered gate openers offer a reliable solution, as they come with battery backup systems to ensure operation even during power outages or periods of low sunlight. Installation of solar-powered gate openers is easy, and they require minimal maintenance, which makes them a smart long-term investment. Overall, solar-powered gate openers offer a range of advantages and are an excellent choice for anyone looking for a cost-effective, reliable, and environmentally friendly solution for gate automation.

## Maintenance of Solar Powered Gate Openers

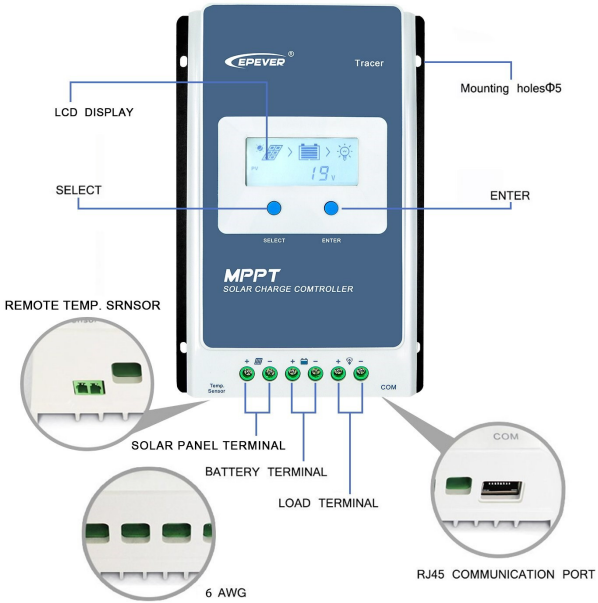
Maintenance of solar-powered gate openers is a crucial aspect of ensuring the longevity and optimal performance of the system. Periodic maintenance can help identify and address potential issues before they become significant problems. The solar panels should be cleaned regularly to remove dirt, debris, and any other obstructions that could hinder their ability to harvest sunlight. The battery backup system should be checked periodically to ensure it is charged and functioning correctly. The controller board and wiring should be inspected to ensure they are in good condition and free of damage or corrosion. It is recommended to follow the manufacturer's instructions regarding the maintenance of the solar-powered gate opener. It is also essential to check the gate opener's manual release option to ensure that it works correctly in the event of a power outage or emergency. Regular maintenance can save money on costly repairs and ensure that the system is working optimally. In summary, periodic maintenance of solar-powered gate openers is essential to ensure their longevity and optimal performance.

## Summary

In conclusion, solar-powered gate openers are an excellent option for those seeking an energy-efficient and environmentally friendly solution for gate automation. The use of renewable energy through solar panels makes them a cost-effective and sustainable choice for homeowners and commercial property owners alike. The benefits of solar-powered gate openers include reduced electricity bills, lower carbon footprint, and the ability to operate in areas where electrical wiring is impractical or not available. There are several types of solar-powered gate openers available, including swing gate openers, sliding gate openers, and barrier gate openers. Installation is relatively straightforward, and the system is easy to maintain with periodic cleaning and inspection. Overall, solar-powered gate openers provide an excellent alternative to traditional gate automation, offering a smart and sustainable option for the future.

## MOTORS, CONTROL PANELS AND ACCESSORIES....

| CODE        | DESCRIPTION                                                                                               | Net Prices |
|-------------|-----------------------------------------------------------------------------------------------------------|------------|
| ACCESSORIES |                                                                                                           |            |
| 801MI-0020  | FROG-X Operator with 24 V motor, suitable for swing gates weighing up to 800 kg that are up to 2.5 m long | £257.64    |
| FROGBN      | Frog foundation casing with anti corrosion treatment                                                      | £101.06    |
| A4370       | Extra Length Transmission Lever for FROG upto 140°                                                        | £42.70     |
| 801XA-0040  | Transmission gear for openings up to 180°                                                                 | £136.55    |
| 801XA-0030  | unlocking device with custom key and EURO-DIN cylinder equipped with anti-lock system                     | £39.10     |
| 806LA-0070  | KRX1B1CW BUS Connect lamp with RGB LEDs for BT and wifi key                                               | £90.90     |
| 801MP-0070  | ATS30DGS 24V irreversible 3M telescopic motor with encoder                                                | £211.09    |
| 801MP-0080  | ATS50DGS 24V irreversible 5M telescopic motor with encoder                                                | £238.60    |



MOTORS, CONTROL PANELS AND ACCESSORIES....

| CODE           | DESCRIPTION                                                                                                                                       | Net Prices |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ACCESSORIES    |                                                                                                                                                   |            |
| SOLARCAB400    | Solar Powered Cabinet 600 x 400 full kit to run any 24v motor, Requires Battery Box                                                               | £1,611.44  |
| BATTERYCAB     | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                     | £1,291.00  |
| SOLARPANEL     | Parlights, 415w Solar Panel 1719 x 1140 x 30mm                                                                                                    | £195.00    |
| BATTERY110ah   | Shield-TM 12V 110Ah Sealed Leisure Battery                                                                                                        | £129.50    |
| BATCLAMP       | Pair of battery terminal clamps with covers                                                                                                       | £17.50     |
| SOLARYBRANC    | VIVLLEN 4 Y-Branch Solar Panel Connectors Adapte-Male Female Connector Solar Panel Extension Cable PV Wire Adapter                                | £10.99     |
| SOLARCABLE     | Pair of 4mm2 solar cables with MC4 connectors 10M                                                                                                 | £35.96     |
| SOLAR MC4 PLUG | Solar Panel Connector Male/Female Solar Panel Cable 1 X Female 1 x Male Plug                                                                      | £1.95      |
| EPEVER         | EPEVER® 30A MPPT Solar Charge Controller 12V/24V                                                                                                  | £235.63    |
| VICTRON-DC     | VICTRON Energy Orion IP20 12/24-Volt 20 amp DC-DC Converter                                                                                       | £189.60    |
| ZLB24-SA       | Control panel for FROG-X, featuring a graphic display Adaptive Speed & Torque Technology, CXN BUS, second radio                                   | £1,250.32  |
| 806QA-0060     | ZLX24SA 24v Multi Use Panel For ATS arms can any 24 v motor featuring a graphic display Adaptive Speed & Torque Technology, CXN BUS, second radio | £214.68    |
| 806TF-0110     | DXR20SAP- BUS adjustable photocells 20m range                                                                                                     | £65.18     |
| VRMK/S         | VRM Surface Mount Stainless Steel Keypad                                                                                                          | £131.19    |
| 806TS-0270     | TOP44RBN Four-channel rolling code transmitter 433mhz                                                                                             | £20.33     |
| 806LA-0070     | KRX1B1CW BUS Connect lamp with RGB LEDs for BT and wifi key                                                                                       | £90.90     |

Comparison of solar powered gate openers to traditional gate openers, in terms of cost and efficiency.

While the initial cost of a solar powered gate opener may be higher than a traditional gate opener, in the long run it is actually a more cost-effective option. This is because solar-powered gate openers do not require an external power source and therefore save money on electricity bills. Additionally, the cost of installation can be lower as there is no need to run electrical wiring to the gate, and the need for an electrician can be minimized or eliminated. Once installed, solar-powered gate openers require minimal maintenance and the energy generated from the solar panels is entirely renewable, making it an environmentally-friendly option for gate automation. In contrast, traditional gate openers require regular maintenance and have ongoing energy costs associated with them. Therefore, while the initial cost may be higher, solar-powered gate openers can be a more cost-effective option in the long term.





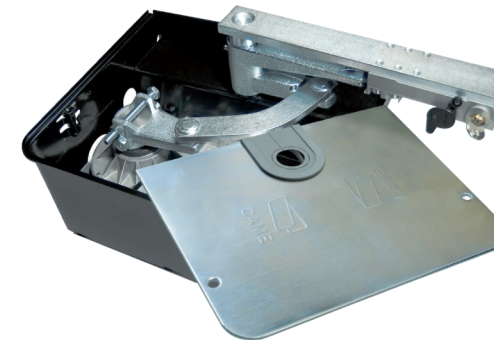
## ATS SOLAR POWERED THE UNIVERSAL TELESCOPIC MOTOR FOR 3M OR 5M SWING GATES

### SOLAR POWERED ATS 3M ARMS FOR SWING GATE AUTOMATION KITS

| CODE                                | DESCRIPTION                                                                                                                                                                                   | Net Prices |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| SOLAR ATS 3M 24V GATES KITS         |                                                                                                                                                                                               |            |
| <b>SOLAR-ATS3MS</b>                 | 1 x Solar Cabinet, 1 x Battery Box, 1 x ATS 3M gear motors, plug-in radio frequency card and tuned antenna, and free RGSM Connectivity Pack, DXR Bus photocells, rolling code transmitters x1 | £1,870.02  |
| <b>BATTERYCAB</b>                   | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                                                                 | £1,291.00  |
| Total Cost + Vat @ Current Rate 20% |                                                                                                                                                                                               | £3,161.02  |
| <b>SOLARATSS3MP</b>                 | 1 x Solar Cabinet, 1 x Battery Box, 1 x ATS 3M gear motors, plug-in radio frequency card and tuned antenna, and free RGSM Connectivity Pack, DXR Bus photocells, rolling code transmitters x1 | £2,078.73  |
| <b>BATTERYCAB</b>                   | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                                                                 | £1,291.00  |
| Total Cost + Vat @ Current Rate 20% |                                                                                                                                                                                               | £3,161.02  |

### SOLAR POWERED ATS 5M ARMS FOR SWING GATE AUTOMATION KITS

| CODE                                | DESCRIPTION                                                                                                                                                                                    | Net Prices |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| SOLAR ATS 5M 24V GATES KITS         |                                                                                                                                                                                                |            |
| <b>SOLARATSS5MS</b>                 | 1 x Solar Cabinet, 1 x Battery Box, 2 x ATS 5M gear motors, plug-in radio frequency card and tuned antenna, and free RGSM Connectivity Pack, DXR Bus photocells, rolling code transmitters x2, | £1,404.07  |
| <b>BATTERYCAB</b>                   | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                                                                  | £1,291.00  |
| Total Cost + Vat @ Current Rate 20% |                                                                                                                                                                                                | £2,695.07  |
| <b>SOLARATSS5M</b>                  | 1 x Solar Cabinet, 1 x Battery Box, 1 x ATS 5M gear motors, plug-in radio frequency card and tuned antenna, and free RGSM Connectivity Pack, DXR Bus photocells, rolling code transmitters x1  | £1,585.31  |
| <b>BATTERYCAB</b>                   | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                                                                  | £1,291.00  |
| Total Cost + Vat @ Current Rate 20% |                                                                                                                                                                                                | £2,876.31  |



## FROG-X Solar Powered swing gate operator

The ultimate  
underground  
motor, reinvented

### SOLAR POWERED FROG-X SWING GATE AUTOMATION KITS

| CODE                                | DESCRIPTION                                                                                                                                                                                                                      | Net Prices |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| SOLAR FROG-X 24V PAIR OF GATES KITS |                                                                                                                                                                                                                                  |            |
| <b>SOLARFROGS</b>                   | 1 x Solar Cabinet, 1 x Battery Box, 1 x Frog-X gear motors, 1 x foundation boxes, plug-in radio frequency card and tuned antenna, and free RGSM Connectivity Pack, DXR Bus photocells, rolling code transmitters x1, key release | £2,115.20  |
| <b>BATTERYCAB</b>                   | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                                                                                                    | £1,291.00  |
| Total Cost + Vat @ Current rate 20% |                                                                                                                                                                                                                                  | £3,406.20  |

| CODE                                | DESCRIPTION                                                                                                                                                                                                                      | Net Prices |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| SOLAR FROG-X 24V SINGLE GATES KITS  |                                                                                                                                                                                                                                  |            |
| <b>SOLARFROGP</b>                   | 1 x Solar Cabinet, 1 x Battery Box, 2 x Frog-X gear motors, 2 x foundation boxes, plug-in radio frequency card and tuned antenna, and free RGSM Connectivity Pack, DXR Bus photocells, rolling code transmitters x2, key release | £2,524.24  |
| <b>BATTERYCAB</b>                   | Solar Battery Cabinet, isolator Battery connectors inc 4 batteries & Fittings                                                                                                                                                    | £1,291.00  |
| Total Cost + Vat @ Current rate 20% |                                                                                                                                                                                                                                  | £3,815.24  |