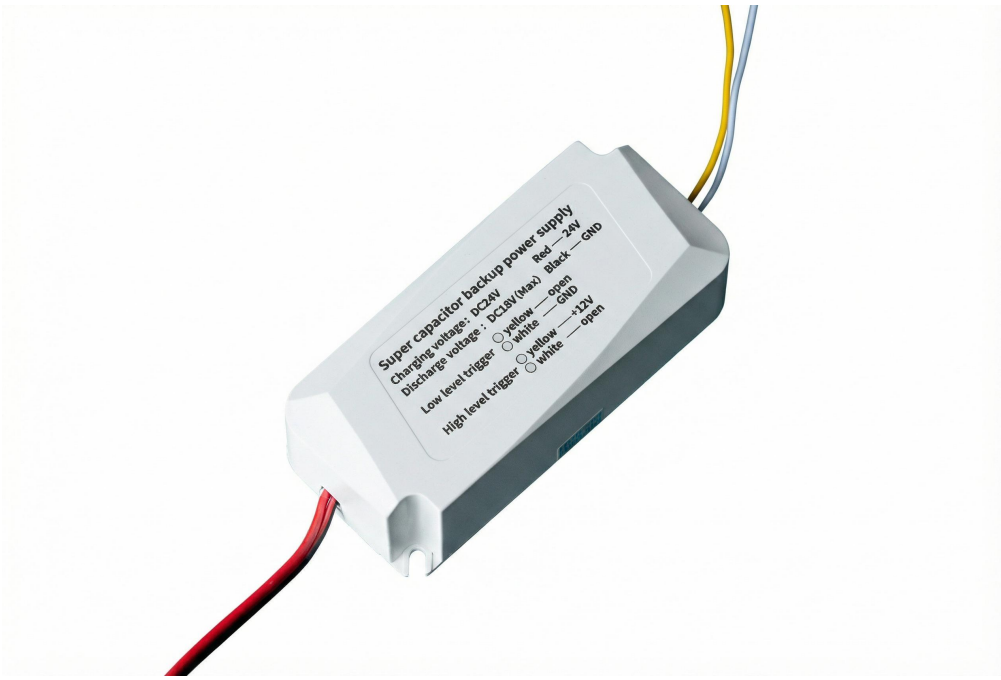
SXK-AS01

Supercapacitor Backup Power Supply for Barrier Gate

A capacitor based energy reserve for compatible 24V DC barrier gate systems. The module stores energy during normal operation to support emergency boom opening when the main supply fails, helping vehicles leave the lane during a power interruption.



Charging supply	Maximum discharge voltage	Trigger references
24V DC	18V DC	Low level or high level

Enclosed backup module with power and trigger leads

Product highlights

Emergency opening support. Provides a local reserve for the compatible barrier system to lift the boom following a supply interruption.

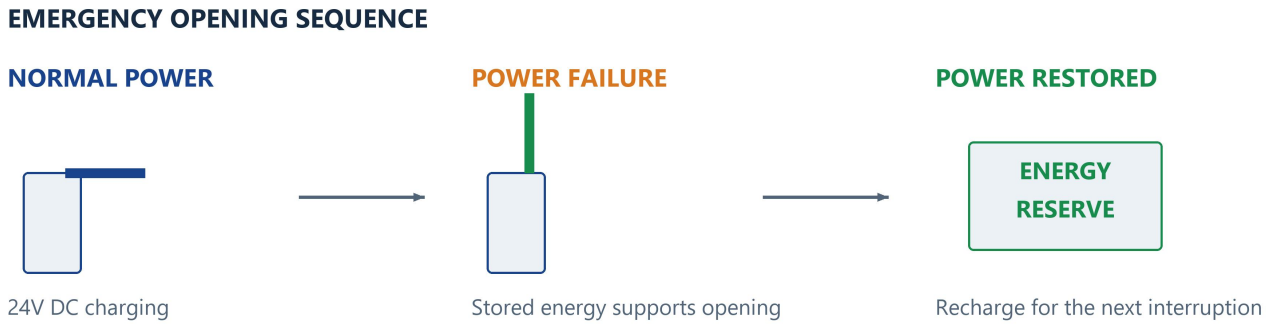
Capacitor energy storage. Uses a supercapacitor reserve for the emergency movement. Opening capability depends on stored charge, controller compatibility and the mechanical load.

Defined power and signal leads. Separate red / black power leads and yellow / white trigger references simplify identification during integration.

Specifications and operating sequence

The module is charged from a 24V DC system. Its labeled maximum discharge voltage is 18V DC, so the barrier controller and drive must support the backup voltage available during an emergency movement.

Parameter	Specification
Product	Supercapacitor backup power supply for a compatible barrier gate
Model	SXK-AS01
Energy storage	Supercapacitor based reserve
Charging voltage	24V DC
Maximum discharge voltage	18V DC
Red power lead	24V connection
Black power lead	GND / 0V
Low level trigger reference	Yellow to OPEN; white to GND
High level trigger reference	Yellow to +12V; white to OPEN
Intended function	Support emergency boom opening following loss of normal power
Construction	Enclosed module with flying leads and mounting slots
Installation location	Inside a suitable protected barrier control cabinet



How the module works with the barrier

Normal supply. The barrier operates from its normal supply while the module accumulates reserve energy through the designated power interface.

Supply interruption. The reserve supports the compatible controller and opening movement. The matched trigger connection provides the controller interface for the emergency opening function.

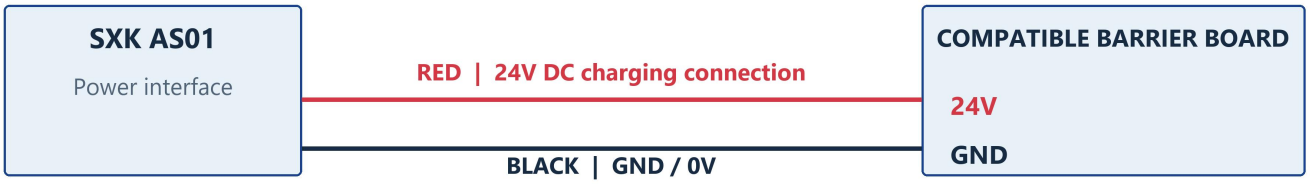
Supply restoration. Restore normal power and allow the reserve to recharge before repeating the outage test. The barrier controller determines subsequent operation and closing behavior.

Select the module together with the controller, motor and boom assembly. Verify emergency opening with the installed arm length, balance and speed settings; available backup operation depends on the complete system.

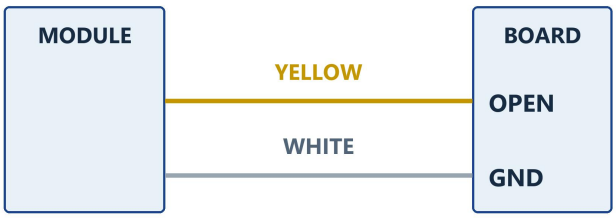
Lead connections and installation

Connect the power pair to the controller interface specified for the backup module. Match one of the label trigger arrangements to the delivered module and the controller input circuit before energizing the system.

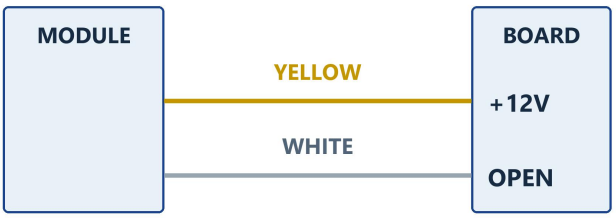
POWER LEADS



LOW LEVEL TRIGGER



HIGH LEVEL TRIGGER



Alternative trigger references from the product label. Use only the arrangement matched to the supplied unit.
Confirm the controller power interface and outage operation before connection. Signal leads are not motor leads.

Lead	Power connection	Low level trigger	High level trigger
Red	24V	Same power connection	Same power connection
Black	GND / 0V	Same power connection	Same power connection
Yellow	Signal lead	OPEN	+12V
White	Signal lead	GND	OPEN

Installation and commissioning

01 Check compatibility. Confirm the 24V charging supply, backup interface and trigger logic. Verify that the controller can perform an opening movement at the module discharge voltage.

02 Mount and route. Secure the enclosure in a protected cabinet with clearance from moving parts. Route the leads with strain relief and confirm each connection against the module label and controller diagram.

03 Test a supply interruption. Charge the module, keep the boom area clear and interrupt normal power under controlled conditions. Confirm full opening without controller reset or an incomplete movement, then restore power and recharge.

Retain the barrier system vehicle detection and obstruction protection. Isolate normal power before servicing and account for energy remaining in the capacitor module. Do not short the leads; verify discharge before handling the power connections.

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Specifications are subject to change without notice. Please confirm final configuration and certifications with our sales team before ordering.