



A robust automatic barrier with an off-grid power system, designed for low-traffic locations.

The solar power system enables installation in locations without access to an electrical power supply.

Off-grid system

24 V / 18 Ah

Solar panel

Off-grid 24 V power system

The battery expansion module with solar panel enables independent operation of the AG500S automatic barrier without connection to the electrical grid. The solar panel may be mounted directly on the barrier cabinet or on a suitable supporting structure in its vicinity.

The maximum recommended cable length between the solar panel and the battery box is 10 m.

Solar panel installation

For proper system functionality, the solar panel must be installed in a location that ensures maximum year-round exposure to direct sunlight. Insufficient solar irradiation may reduce the available operating time of the barrier.

Battery box

The battery box with a capacity of up to 18 Ah provides power for the barrier for up to 12 hours of standard operation when current conditions do not allow sufficient charging from the solar panel.

Solar panel

The standard configuration with a single solar panel can be expanded with an additional panel, increasing the system's charging capacity and ensuring a higher level of operational reliability.



Technical parameters

Barrier control unit voltage	24 V
Backup operating time	12 – 72hrs depending on operating intensity
Weight	approx. 17 kg
Battery box output voltage	24 - 28 Vdc
Battery capacity	18 Ah
Battery technology	VRLA (AGM/GEL)
Battery box dimensions	267 x 189 x 198 mm
Replaceable batteries	yes
LED indicator	yes
Max. cable length (solar panel <-> battery box)	10 m (2 x 1 mm ²)
Max. cable length (barrier <-> battery box)	3 m (2 x 1.5 mm ²)
Solar panel power	20 Wpeak
Operating temperature of battery box (in use)	-20 °C to +50 °C
Operating temperature (solar panel)	-20 °C to +80 °C



