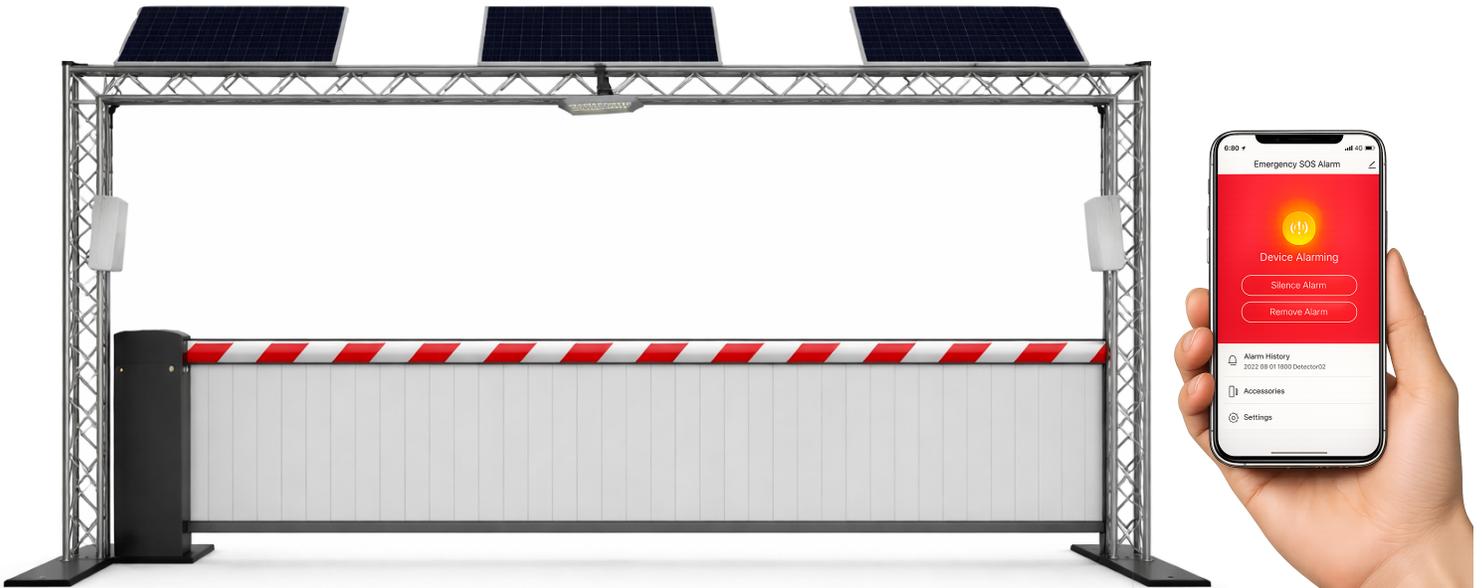


Solar-Powered Louver Barrier Gate System with RFID Access Control and Anti-Theft Tracking

Model: F-GPA-DZ308

System Overview

The F-GPA-DZ308 is a **fully autonomous** solar-powered barrier gate system designed for construction sites, remote facilities, temporary checkpoints, and other off-grid locations. This complete solution combines barrier gate control, long-range RFID vehicle access, anti-theft asset tracking, wireless 4G alarm notification, and solar-powered operation **without** the need for external wiring or utility power.



Barrier Gate Specifications

Model	F-GPA-DZ308
Type	Solar-Powered Louver Barrier Gate
Housing Dimensions	16.5" W × 12.6" D × 43.3" H
Operating Voltage	DC 24V / DC 12V
Motor Type	180W DC Brushless Motor
Opening / Closing Time	5–7 seconds
Anti-Crush Protection	Automatic boom rebound upon obstacle detection
Lightning Protection	Included
Boom Type	Louver Arm
Maximum Recommended Boom Length	up to 16.4 ft

Solar Power System for Barrier Gate

Dual-sided photovoltaic solar panel system

Top cover solar panel configuration	90W + 100W / 200W
Solar mounting pole height	9.8 ft
Battery Type	LiFePO4
Battery Capacity	500Ah
Power Management	Integrated photovoltaic control, drive control, and battery cycle power conversion
Protection Features	Overcharge and over-discharge protection
Performance	Up to 6,000 lifting cycles during extended rainy or low-sunlight conditions
Emergency backup battery replacement available	

RFID Vehicle Access Control System

Included in this system:

- 2 × F-930 Long-Range RFID Readers
- One reader for entry
- One reader for exit
- Read range: up to 50 ft
- Dry contact relay output for barrier trigger

Each RFID reader includes:

- Dedicated solar power system
- 9V / 3A power output
- Backup battery included

RFID Tags Included

Included in this system:

- 100 × Heavy-Duty UHF Anti-Metal RFID Tags (stickers and rivets)
- Recommended for construction sites and harsh outdoor conditions

Anti-Metal Tag Specifications

Size	5.31" × 0.87" × 0.47"
Material	ABS
Operating Temperature	-22°F to +185°F
Waterproof Rating	IP65

Alternative RFID Credential Options

Other RFID credentials are also available, including:

- Windshield sticker tags
- PVC cards with windshield suction cup card holders
- Key fob tags
- Standard RFID PVC cards

Anti-Theft Tracking System

Included in this system:

- 1 × F-930 Anti-Theft / Tracking System
- Equipped with strobe light and 110 dB alarm
- Detects unauthorized attempts to pass through the access point with tagged items, assets, or equipment
- Suitable for monitoring protected assets under the road truss structure
- Can block the exit when an alarm is triggered
- Anti-theft response takes precedence over access control when required

Power for anti-theft system:

- Dedicated solar panel
- 9V / 3A power output
- Backup battery included

Wireless 4G GSM Alarm Notification System

Included in this system:

- Wireless GSM / 4G alarm notification unit
- Sends alerts to up to 5 mobile phone numbers simultaneously
- Notifies users of any unauthorized attempt to pass through the access point with a tagged asset or item
- Can be used for real-time remote alert notification

Included Structural Components

Outdoor Electrical Box	
Quantity	1 pc
Size	12" × 12" × 8"
Road Truss for Devices	
Quantity	1 pc
Width	20 ft
Height	14 ft
Construction	Square metal structure
Main Pipe Size	8" × 8" square pipe
Secondary Pipe Size	1"
Load Capacity	400 lb
Weight	170 lb

Features:

Quick and easy setup
Adjustable and extendable height and width

Standard Included Components

- 1 × F-GPA-DZ308 Solar Barrier Gate
- 1 × Louver Barrier Arm
- 2 × Wireless encrypted long-range remote controls
- 1 × Battery box set
- 2 × Solar panels for barrier gate
- 2 × F-930 RFID Readers for entry and exit
- 2 × Solar power kits for RFID readers with backup batteries
- 100 × Heavy-Duty UHF Anti-Metal RFID Tags (stickers and rivets)
- 1 × F-930 Anti-Theft / Tracking System with strobe light and 110 dB alarm
- 1 × Solar power kit for anti-theft system with backup battery
- 1 × Wireless GSM / 4G alarm notification system
- 1 × Outdoor electrical box
- 1 × Road truss structure
- 1 × F-02 RFID Tag Writer / Encoder (USB)

Event logs and full access control software system optional