



For Complete Security

Rapid Deployment Security Towers for Solar & BESS Projects

Solar and BESS assets face their peak security threat long before grid connection, mains power, or permanent fencing are established. During early site layout and civils works, thousands of pounds in exposed cabling, transformers and plant inventory sit vulnerable in remote compounds.

GBSG Rapid Deployment Security Towers deliver an immediate security solution throughout a site's construction phase.

Security for Site Construction & Temporary Asset Protection

As temporary, self powered security units delivering monitored, detector activated surveillance, the Rapid Deployment Security Towers are engineered to provide fast, robust perimeter protection. Fitted with passive infrared (PIR) and AI-supported optical sensors, they detect authorised movement when armed and transmit footage to GBSG's Monitoring Centre for assessment.

The Monitoring Centre incorporates an NSI Gold Category 2 Alarm Receiving Centre (ARC) and Remote Video Response Centre (RVRC). It is staffed by SIA-licensed operators who assess events in real time, issue local audio warnings, and coordinate the appropriate response - including mobile patrols, drone deployment, or emergency services via ECHO-enabled digital dispatch.

NEW Rapid Aerial Drone Synergy

Rapid Deployment Security Towers integrate directly with GBSG's newly developed automated Rapid Aerial Response Drones. When a tower alarm is activated, an autonomous drone can be launched immediately to provide fast overhead verification and wide-area visual coverage across the solar site.



Key Features

- **100% Off-Grid Power Independence:**
The Rapid Deployment Security Towers operate on an internal primary power pack delivering continuous, 24/7 standalone battery life.
- **AI Movement Detection & Video Capture:**
Upon activation, photo-on-demand technology instantly captures and transmits a 10-second video clip alongside the alarm event for immediate threat assessment by GBSG's Monitoring Centre.
- **Selective Sounder Control:** The Rapid Deployment Security Towers feature high-decibel local sounders that can be configured for automatic activation or controlled exclusively by Monitoring Centre operators. Using operator-initiated activation ensures sounders are only triggered following visual threat verification, preventing false alarms and avoiding unnecessary noise disturbance.
- **Tamper, Vibration & Tilt Sensors:**
Built-in vibration and tilt sensors detect any attempt to shake, strike, climb, or move the Security Tower. If tampering or unauthorised movement is detected, the system automatically triggers a 10-second video clip from every mounted device on the site, sending it directly to the Monitoring Centre for immediate verification and response.
- **Global Roaming Cellular Transmission:**
All Rapid Deployment Security Towers are fitted with specialised European roaming SIMs operating across 2G, 3G and LTE. These roaming SIMs automatically connect to the strongest available cellular network on site, ensuring continuous, reliable data transmission - even in remote rural locations where coverage is inconsistent.

Rapid Deployment Security Towers - Technical Specification



Camera and Detection Devices

Power Supply	4 x CR123A
Battery Life	Up to 3 Years
Operating Temperature	-25°C to +60°C
Protection Class	IP55
Compliance	EN 50131 (Grade 2) PD 6662:2017
Motion Detection	2 x PIR Sensors
Detection Angle	90°
Detection Distance	3 to 15 metres
Anti Masking	Yes
Tamper Alarm	Yes
Photo Resolution	640 x 352
IR Illumination	Yes
Weight	470g
Dimensions	206 x 108 x 93mm

Contact

Power Supply	1 x CR123A
Battery Life	Up to 7 Years
Operating Temperature	-10°C to +40°C
Protection Class	IP50
Compliance	EN 50131 (Grade 2) PD 6662:2017 UL634, ULC/ORD-C634
Detection	Reed Switch
Weight	29g
Dimensions	20 x 90mm

Sounder

Power Supply	4 x CR123A
Battery Life	Up to 5 Years
Operating Temperature	-25°C to +60°C
Compliance	EN 50131 (Grade 2) PD 6662:2017 SIA CP-01 UL634, ULC/ORD-C634
Alarm	Audible
	LED
Weight	571g
Dimensions	200 x 200 x 55mm

Tower

Material	Aluminium
Colour	Green
Ground Clearance	845mm
Weight	30Kg
Dimensions (Tower)	665 x 400 mm
Dimension (Footprint)	1550 x 1500 mm

Control Equipment

Voltage	7.2V
Capacity	95Ah
Months of operation (BPS)	25
Type	Non-rechargeable
Internal Power Supply	4.2-16.2v (2A Max)
Operating Temperature	-10°C to +40°C
Compliance	EN 50131 (Grade 2) PD 6662:2017 NIST (AES-128)
Communication	2 x micro-SIM (2G/3G/LTE)
Weight	1.01Kg
Dimensions	196 x 238 x 100 mm

Partner with GBSG for complete Solar and BESS site protection.

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