

# SiteGuard SG1

Stand alone rapid deployable security tower meticulously designed to house AJAX Intrusion protection devices for remote sites without power or connectivity.

SiteGuard provides 360 degree coverage of an area up to 30m with the use of up to 4 x MotionCam Outdoor devices; powered by built-in battery and solar technology; SiteGuard can provide perimeter protection without the need for mains power.

With no industry immune from crime; SiteGuard can be introduced across multiple sectors: construction sites, agricultural and farming land, vacant properties, storage units for equipment and machinery as well as event spaces.

## KEY FEATURES

- Powered by built-in battery with Solar technology
- 4 x MotionCam Outdoor detectors to each side provides full 360° coverage
- Detection range 3-15 meters
- 2 x 113db Sounders, sound on activation or remotely activated
- Remote Management & Alert Notification via App (*iOS & Android*)
- Global roaming sim card for hub connectivity, 24/7 monitoring by NSI Gold accredited ARC
- Scenarios for auto Arm/Disarm in line with operating hours
- Anti-tamper & anti-masking technology (*will alert when system is both armed & disarmed*)
- Alert verification with high quality images on activation, along with Photo-on-Demand feature
- Easily re-located between sites
- Ability to manage multiple secondary units & other AJAX devices

## TOWER INCLUDES:

- 12v Solar Panel with Charge Controller
- Secure IP enclosure for Charge Controller & AJAX Hub
- Laser cut & threaded mountings for all AJAX Devices
- Securing screws for all AJAX Devices
- Wiring loom for battery connection
- External charge connector
- 2 x Sturdy Anti-Vibration Feet
- Galvanised Steel Body & Base
- 2 x Removable Travel Feet (*standard*)

## DIMENSIONS

- Height: 1380mm
- Base Width: 680mm (*inc. feet*)
- Weight: 37-70kg (*Dependent on battery used*)



All specifications and data described in this data sheet are tested under standard test conditions (STC - Irradiance: 1000W/m<sup>2</sup>, Temperature: 25 C, Air Mass: 1.5) and may deviate marginally from actual values.

## 25W 18V MONO SOLAR PANEL

- IP-65 waterproof junction box
- Durable aluminum frame
- Over 20 years lifespan
- Built-in diode to prevent reverse current
- High bearing capacity with tempered glass

### Electrical Data

|                           |                 |
|---------------------------|-----------------|
| Rated power               | 25W             |
| Solar cell                | Monocrystalline |
| Maximum/Peak voltage(Vmp) | 18V             |
| Open circuit voltage(Voc) | 22.41V          |
| Short circuit current     | 1.54A           |
| Maximum current           | 1.4A            |

### Mechanical Data

|                            |                                   |
|----------------------------|-----------------------------------|
| Size                       | 421×320×20mm (16.5×12.6×0.7 inch) |
| Weight:                    | 0.75kg (3.0 lbs)                  |
| Front surface:             | Tempered glass                    |
| Length of extension cable: | 100cm (39 inch)                   |
| Junction box waterproof:   | IP65                              |



## CHARGE CONTROLLER

### MPPT 75/10

|                                  |  |
|----------------------------------|--|
| Battery voltage                  | 12/24V   |
| Rated charge current             | 10A  |
| Nominal PV power, 12V 1a,b)      | 145W   |
| Nominal PV power, 24V 1a,b)      | 290W   |
| Max. PV short circuit current 2) | 13A  |
| Automatic load disconnect        | Yes  |
| Max. PV open circuit voltage     | 75V  |
| Peak efficiency                  | 98%  |
| Self-consumption – load on       | 12V: 25 mA 24V: 15 mA  |
| Self-consumption – load off      | 12V: 25 mA 24V: 15 mA  |
| Charge voltage 'absorption'      | 14,4V / 28,8V (adjustable)   |
| Charge voltage 'float'           | 13,8V / 27,6V (adjustable)   |
| Charge algorithm                 | Multi-stage adaptive   |
| Temperature compensation         | -16 mV / °C resp. -32 mV / °C  |
| Max. continuous load current     | 15A  |
| Low voltage load disconnect      | 11,1V / 22,2V / 44,4V or 11,8V / 23,6V / 47,2V or Battery Life algorithm |
| Low voltage load reconnect       | 13,1V / 26,2V / 52,4V or 14V / 28V / 56V or Battery Life algorithm       |
| Protection                       | Output short circuit / Over temperature                                  |
| Operating temperature            | -30 to +60°C (full rated output up to 40°C)                              |
| Humidity                         | 95%, non-condensing  |
| Power terminals                  | 6 mm <sup>2</sup> / AWG10  |
| Protection category              | IP43 (electronic components), IP22 (connection area)                     |
| Weight                           | 0,5 kg   |
| Dimensions (h x w x d)           | 100 × 113 × 40 mm  |
| Safety                           | EN/IEC 62109-1, UL 1741, CSA C22.2                                       |

0300 113 6232

sales@siteguardltd.com

www.siteguardltd.com